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OM nucleic - nucleic search, using sw model

Run on: May 19, 2004, 02:49:51 ; Search time 74 Seconds
(without alignments)
427.462 Million cell updates/sec

Title: RIBOZYME1A
Perfect score: 57
Sequence: 1 ggguccaccucucggun.....uucgcauggcuuaggacc 57

Scoring table: IDENTITY_NUCDX
Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patent_NA:*

1: /cggn2_6/ptodata/2/ina/5A_COMB.seq:*

2: /cggn2_6/ptodata/2/ina/5B_COMB.seq:*

3: /cggn2_6/ptodata/2/ina/6A_COMB.seq:*

4: /cggn2_6/ptodata/2/ina/6B_COMB.seq:*

5: /cggn2_6/ptodata/2/ina/PCTUS_COMB.seq:*

6: /cggn2_6/ptodata/2/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query | Match | Length | DB | ID | Description |
|------------|-------|-------|-------|--------|-------------------|----|--------------------|
| 1 | 31 | 54.4 | 61 | 1 | US-08-238-963A-18 | | Sequence 18, App1 |
| 2 | 29.6 | 51.9 | 52 | 1 | US-08-741-881-40 | | Sequence 40, App1 |
| 3 | 29.6 | 51.9 | 52 | 1 | US-08-741-881-80 | | Sequence 80, App1 |
| 4 | 29.6 | 51.9 | 52 | 1 | US-08-739-158-40 | | Sequence 40, App1 |
| 5 | 29.6 | 51.9 | 52 | 1 | US-08-739-158-80 | | Sequence 80, App1 |
| 6 | 29.6 | 51.9 | 52 | 2 | US-08-739-167-40 | | Sequence 40, App1 |
| 7 | 29.6 | 51.9 | 52 | 2 | US-08-739-167-80 | | Sequence 80, App1 |
| 8 | 29.6 | 51.9 | 52 | 3 | US-08-404-796-40 | | Sequence 40, App1 |
| 9 | 29.6 | 51.9 | 52 | 3 | US-08-404-796-80 | | Sequence 80, App1 |
| 10 | 29.6 | 51.9 | 52 | 3 | US-08-931-869-40 | | Sequence 40, App1 |
| 11 | 29.6 | 51.9 | 52 | 3 | US-08-931-869-80 | | Sequence 80, App1 |
| 12 | 29.6 | 51.9 | 52 | 4 | US-09-350-399-40 | | Sequence 40, App1 |
| 13 | 29.6 | 51.9 | 52 | 4 | US-09-350-399-80 | | Sequence 80, App1 |
| 14 | 29.6 | 51.9 | 52 | 4 | US-09-236-140A-40 | | Sequence 40, App1 |
| 15 | 29.6 | 51.9 | 52 | 4 | US-09-236-140A-80 | | Sequence 80, App1 |
| 16 | 29.6 | 51.9 | 80 | 1 | US-08-238-963A-16 | | Sequence 16, App1 |
| 17 | 29.6 | 51.9 | 83 | 3 | US-08-646-695-12 | | Sequence 12, App1 |
| 18 | 29.6 | 51.9 | 83 | 5 | PCT-US96-06053-12 | | Sequence 12, App1 |
| 19 | 29.6 | 51.9 | 84 | 1 | US-08-238-963A-13 | | Sequence 13, App1 |
| 20 | 29.6 | 51.9 | 84 | 1 | US-08-238-963A-14 | | Sequence 14, App1 |
| 21 | 29.6 | 51.9 | 86 | 1 | US-08-238-963A-6 | | Sequence 6, App1 |
| 22 | 29.6 | 51.9 | 90 | 4 | US-09-554-337-2 | | Sequence 2, App1 |
| 23 | 29.6 | 51.9 | 90 | 4 | US-09-733-042-12 | | Sequence 12, App1 |
| C | 29.6 | 51.9 | 90 | 4 | US-09-733-042-13 | | Sequence 13, App1 |
| C | 29.6 | 51.9 | 101 | 6 | 5225337-2 | | Patent No. 5225337 |
| C | 29.6 | 51.9 | 105 | 2 | US-08-553-619B-25 | | Sequence 25, App1 |
| C | 29.6 | 51.9 | 105 | 2 | US-08-553-619B-30 | | Sequence 30, App1 |

ALIGNMENTS

RESULT 1
US-08-238-963A-18
; Sequence 18, Application US/08238963A
; Patent No. 5625047
; GENERAL INFORMATION:

; APPLICANT: Been, Michael D.
; APPLICANT: Rosenstein, Sarah P.
; PERROTTA, Anne T.
; TITLE OF INVENTION: ENZYMATIC RNA MOLECULES
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C., DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/238,963A
; FILING DATE: May 5, 1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/821,155
; FILING DATE: January 13, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 207/093
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 61 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-238-963A-18

Query Match Similarity 54.4%; Score 31; DB 1; Length 61;
Best Local Similarity 77.4%; Pred. No. 1.4%;
Matches 41; Conservative 6; Mismatches 2; Indels 4; Gaps 1;

Qy 4 UCCACCUCCUCGGUNNNNDNTGGCAUGGGCUCGGCAUGGGAC 56
 Db 8 UCCACCUCCUCGGGACCTGGCAU---CTUCGAUGGGAC 56

RESULT 2

US-08-741-881-40

; Sequence 40, Application US/08741881

; Patent No. 5789245

GENERAL INFORMATION:

; APPLICANT: Dubensky Jr, Thomas W

; ATTORNEY/AGENT INFORMATION: ;

; APPLICANT: Polo, John M.

; ATTORNEY/AGENT INFORMATION: ;

; APPLICANT: Ibanez, Carlos E.

; ATTORNEY/AGENT INFORMATION: ;

; APPLICANT: Chang, Stephen M.W.

; ATTORNEY/AGENT INFORMATION: ;

; APPLICANT: Jolly, Douglas J.

; ATTORNEY/AGENT INFORMATION: ;

; APPLICANT: Driver, David A.

; ATTORNEY/AGENT INFORMATION: ;

; APPLICANT: Belli, Barbara A.

; ATTORNEY/AGENT INFORMATION: ;

TITLE OF INVENTION: EUKARYOTIC LAYERED VECTOR INITIATION SYSTEMS

; NUMBER OF SEQUENCES: 128

CORRESPONDENCE ADDRESS:

; ADDRESSSEE: SEED and BERRY LLP

; ATTORNEY/AGENT INFORMATION: ;

; STREET: 6300 Columbia Center, 701 Fifth Avenue

; CITY: Seattle

; STATE: Washington

; COUNTRY: US

; ZIP: 98104-7092

COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/741,881

; FILING DATE: 30-OCT-1996

; CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

; NAME: McMasters, David D.

; ATTORNEY/AGENT INFORMATION: ;

; REGISTRATION NUMBER: 33,963

TELECOMMUNICATION INFORMATION:

; TELEPHONE: (206) 622-4900

; TELEFAX: (206) 682-6031

; INFORMATION FOR SEQ ID NO: 40:

SEQUENCE CHARACTERISTICS:

; LENGTH: 52 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; US-08-741-881-40

RESULT 4

US-08-739-158-40

; Sequence 40, Application US/08739158

; Patent No. 5814482

GENERAL INFORMATION:

; APPLICANT: Dubensky Jr, Thomas W

; ATTORNEY/AGENT INFORMATION: ;

; APPLICANT: Polo, John M.

; ATTORNEY/AGENT INFORMATION: ;

; APPLICANT: Ibanez, Carlos E.

; ATTORNEY/AGENT INFORMATION: ;

; APPLICANT: Chang, Stephen M.W.

; ATTORNEY/AGENT INFORMATION: ;

; APPLICANT: Jolly, Douglas J.

; ATTORNEY/AGENT INFORMATION: ;

; APPLICANT: Driver, David A.

; ATTORNEY/AGENT INFORMATION: ;

TITLE OF INVENTION: EUKARYOTIC LAYERED VECTOR INITIATION SYSTEMS

Qy 51.9%; Score 29.6%; DB 1; Length 52;
 Db 59.4%; Pred. No. 3.7%; Mismatches 1; Indels 0; Gaps 0;

; NUMBER OF SEQUENCES: 128

; CORRESPONDENCE ADDRESS:

; ADDRESSSEE: SEED and BERRY LLP

; ATTORNEY/AGENT INFORMATION: ;

; STREET: 6300 Columbia Center, 701 Fifth Avenue

; CITY: Seattle

; STATE: Washington

; COUNTRY: US

; ZIP: 98104-7092

COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/741,881

; FILING DATE: 30-OCT-1996

; CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

; NAME: McMasters, David D.

; ATTORNEY/AGENT INFORMATION: ;

; REGISTRATION NUMBER: 33,963

TELECOMMUNICATION INFORMATION:

; TELEPHONE: (206) 622-4900

; TELEFAX: (206) 682-6031

; INFORMATION FOR SEQ ID NO: 40:

SEQUENCE CHARACTERISTICS:

; LENGTH: 52 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; US-08-741-881-40

Qy 51.9%; Score 29.6%; DB 1; Length 52;
 Db 59.4%; Pred. No. 3.7%; Mismatches 1; Indels 0; Gaps 0;

Qy 51.9%; Score 29.6%; DB 1; Length 52;
 Db 59.4%; Pred. No. 3.7%; Mismatches 1; Indels 0; Gaps 0;

Qy 51.9%; Score 29.6%; DB 1; Length 52;
 Db 59.4%; Pred. No. 3.7%; Mismatches 1; Indels 0; Gaps 0;

Qy 51.9%; Score 29.6%; DB 1; Length 52;
 Db 59.4%; Pred. No. 3.7%; Mismatches 1; Indels 0; Gaps 0;

Qy 51.9%; Score 29.6%; DB 1; Length 52;
 Db 59.4%; Pred. No. 3.7%; Mismatches 1; Indels 0; Gaps 0;

Qy 51.9%; Score 29.6%; DB 1; Length 52;
 Db 59.4%; Pred. No. 3.7%; Mismatches 1; Indels 0; Gaps 0;

TITLE OF INVENTION: EUKARYOTIC LAYERED VECTOR INITIATION SYSTEMS

TELEPHONE: (206) 622-4900
 TELEFAX: (206) 682-6031
 SEQUENCE CHARACTERISTICS:
 LENGTH: 52 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-08-739-158-40

Query Match 51.9%; Score 29.6; DB 1; Length 52;
 Best Local Similarity 59.4%; Pred. No. 3.7;
 Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

Qy 4 UCCACCUCCUCGCGGUNNNNDNTGGCAUGGG 35
 Db 1 TCCACCTCTCGGGTCCGACCTGGGCATCCG 32

RESULT 5
 US-08-739-158-80
 Sequence 80, Application US/08739158
 Patent No. 5814482

GENERAL INFORMATION:
 APPLICANT: Dubensky Jr, Thomas W
 APPLICANT: Polo, John M.
 APPLICANT: Jolly, Douglas J.
 APPLICANT: Driver, David A.
 TITLE OF INVENTION: EUKARYOTIC LAYERED VECTOR INITIATION SYSTEMS
 NUMBER OF SEQUENCES: 128

CORRESPONDENCE ADDRESS:
 ADDRESSEE: SEED and BERRY LLP
 STREET: 6300 Columbia Center, 701 Fifth Avenue
 CITY: Seattle
 STATE: Washington
 COUNTRY: US
 ZIP: 98104-7092

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/739,167
 FILING DATE: 30-OCT-1996
 CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
 NAME: McMasters, David D.
 REGISTRATION NUMBER: 33,963
 REFERENCE/DOCKET NUMBER: 930049.423C7 / 1146.008

TELECOMMUNICATION INFORMATION:
 TELEPHONE: (206) 622-4900
 TELEFAX: (206) 682-6031
 INFORMATION FOR SEQ ID NO: 40:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 52 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-08-739-157-40

Query Match 51.9%; Score 29.6; DB 2; Length 52;
 Best Local Similarity 59.4%; Pred. No. 3.7;
 Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

Qy 4 UCCACCUCCUCGCGUNNNNDNTGGCAUGGG 35
 Db 1 TCCACCTCTCGGGTCCGACCTGGGCATCCG 32

RESULT 7
 US-08-739-157-80
 Sequence 80, Application US/08739167
 Patent No. 5843723

GENERAL INFORMATION:
 APPLICANT: Dubensky Jr, Thomas W
 APPLICANT: Polo, John M.
 APPLICANT: Ibanez, Carlos E.
 APPLICANT: Chang, Stephen M.W.
 APPLICANT: Jolly, Douglas J.
 APPLICANT: Driver, David A.
 APPLICANT: Belli, Barbara A.
 TITLE OF INVENTION: EUKARYOTIC LAYERED VECTOR INITIATION SYSTEMS AND ALPHAVIRUS
 NUMBER OF SEQUENCES: 128

CORRESPONDENCE ADDRESS:
 ADDRESSEE: SEED and BERRY LLP
 STREET: 6300 Columbia Center, 701 Fifth Avenue
 CITY: Seattle
 STATE: Washington
 COUNTRY: US
 ZIP: 98104-7092

COMPUTER READABLE FORM:

RESULT 6
 US-08-739-157-40
 Sequence 40, Application US/08739167

MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/739,167
 FILING DATE: 30-OCT-1996
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: McMasters, David D.
 REGISTRATION NUMBER: 930049.423C7 / 1146.008
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (206) 622-4900
 TELEFAX: (206) 682-6031
 INFORMATION FOR SEQ ID NO: 80:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 52 base pairs
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-08-739-167-80

Query Match 51.9%; Score 29.6; DB 3; Length 52;
 Best Local Similarity 59.4%; Pred. No. 3.7;
 Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

Qy 4 UCCACCUCCUCGGUNNNNNGGCAUGCG 35
 Db 1 TCCACCTCCTCGGTCGACCTGGGCATCCG 32

RESULT 9
 US-08-404-796-80
 Sequence 80, Application US/08404796
 Patent No. 6015686
 GENERAL INFORMATION:
 APPLICANT: Dubensky Jr., Thomas W
 APPLICANT: Polo, John M.
 APPLICANT: Ibanez, Carlos E.
 APPLICANT: Chang, Stephen M.W.
 APPLICANT: Jolly, Douglas J.
 APPLICANT: Driver, David A.
 APPLICANT: Belli, Barbara A.
 TITLE OF INVENTION: EUKARYOTIC LAYERED VECTOR INITIATION SYSTEMS
 NUMBER OF SEQUENCES: 128
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: SEED and BERRY LLP
 STREET: 6300 Columbia Center, 701 Fifth Avenue
 CITY: Seattle
 STATE: Washington
 COUNTRY: US
 ZIP: 98104-7092
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/404,796
 FILING DATE: 15-MAR-1995
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: McMasters, David D.
 REGISTRATION NUMBER: 33,963
 REFERENCE/DOCKET NUMBER: 930049.423C5 / 1146.006
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (206) 622-4900
 TELEFAX: (206) 682-6031
 INFORMATION FOR SEQ ID NO: 80:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 52 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-08-404-796-80

Query Match 51.9%; Score 29.6; DB 3; Length 52;
 Best Local Similarity 59.4%; Pred. No. 3.7;
 Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

Qy 4 UCCACCUCCUCGGUNNNNNGGCAUGCG 35
 Db 1 TCCACCTCCTCGGTCGACCTGGGCATCCG 32

RESULT 10
 US-08-931-869-40
 Sequence 40, Application US/08931869
 Patent No. 6015694
 GENERAL INFORMATION:
 APPLICANT: Dubensky Jr., Thomas W

APPLICANT: Polo, John M.
 APPLICANT: Ibanez, Carlos E.
 APPLICANT: Chang, Stephen M.W.
 APPLICANT: Jolly, Douglas J.
 APPLICANT: Driver, David A.
 APPLICANT: Belli, Barbara A.
 TITLE OF INVENTION: EUKARYOTIC LAYERED VECTOR INITIATION SYSTEMS
 NUMBER OF SEQUENCES: 128
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: SEED and BERRY LLP
 STREET: 6300 Columbia Center, 701 Fifth Avenue
 CITY: Seattle
 STATE: Washington
 COUNTRY: US
 ZIP: 98104-7092

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/931,869
 FILING DATE: 16-SEP-1997
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/404,796
 FILING DATE: 15-MAR-1995
 ATTORNEY/AGENT INFORMATION:
 NAME: McMasters, David D.
 REGISTRATION NUMBER: 33,963
 REFERENCE/DOCKET NUMBER: 930049.423C5 / 1146.006
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (206) 622-4900
 TELEFAX: (206) 682-6031
 INFORMATION FOR SEQ ID NO: 40:
 LENGTH: 52 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-08-931-869-40

RESULT 11
 US-08-931-869-80
 Sequence 80, Application US/08931869
 Patent No. 6015694
 GENERAL INFORMATION:
 APPLICANT: Dubensky Jr, Thomas W
 APPLICANT: Polo, John M.
 APPLICANT: Ibanez, Carlos E.
 APPLICANT: Chang, Stephen M.W.
 APPLICANT: Jolly, Douglas J.
 APPLICANT: Driver, David A.
 APPLICANT: Belli, Barbara A.
 TITLE OF INVENTION: EUKARYOTIC LAYERED VECTOR INITIATION SYSTEMS
 NUMBER OF SEQUENCES: 128
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: SEED and BERRY LLP
 STREET: 6300 Columbia Center, 701 Fifth Avenue
 CITY: Seattle
 STATE: Washington
 COUNTRY: US
 ZIP: 98104-7092

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/350,399
 FILING DATE: 08-Jul-1999
 CLASSIFICATION: <Unknown>
 ATTORNEY/AGENT INFORMATION:
 NAME: McMasters, David D.
 REGISTRATION NUMBER: 33,963
 REFERENCE/DOCKET NUMBER: 930049.423D1 / 1146.010
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (206) 622-4900
 INFORMATION FOR SEQ ID NO: 40:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 52 base pairs
 TYPE: nucleic acid

STRANDEDNESS: Single
 TOPOLOGY: linear
 SEQUENCE DESCRIPTION: SEQ ID NO: 40:
 US-09-350-399-40

Query Match 51.9%; Score 29.6; DB 4; Length 52;
 Best Local Similarity 59.4%; Pred. No. 3.7;
 Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

Qy 4 UCCACCUCCUCGGUNNNNGGCAUGCG 35
 Db 1 TCCACCTCTCGGGTCCGACCTGGGCATCCG 32

RESULT 13
 US-09-350-399-80
 / Sequence 80, Application US/09350399
 / Patent No. 6342372
 / GENERAL INFORMATION:
 / APPLICANT: Dubensky Jr, Thomas W
 / Polo, John M.
 / Jolly, Douglas J.
 / Driver, David A.
 / TITLE OF INVENTION: EUKARYOTIC LAYERED VECTOR INITIATION SYSTEMS
 / NUMBER OF SEQUENCES: 128
 / CORRESPONDENCE ADDRESS:
 / ADDRESSEE: SEED and BERRY LLP
 / STREET: 6300 Columbia Center, 701 Fifth Avenue
 / CITY: Seattle
 / STATE: Washington
 / COUNTRY: US
 / ZIP: 98104-7092
 / COMPUTER READABLE FORM:
 / MEDIUM TYPE: Floppy disk
 / COMPUTER: IBM PC compatible
 / OPERATING SYSTEM: PC-DOS/MS-DOS
 / SOFTWARE: PatentIn Release #1.0, version #1.25
 / CURRENT APPLICATION DATA:
 / APPLICATION NUMBER: US/09/350,399
 / FILING DATE: 08-Jul-1999
 / CLASSIFICATION: <Unknown>
 / ATTORNEY/AGENT INFORMATION:
 / NAME: McMasters, David D.
 / REGISTRATION NUMBER: 33,963
 / REFERENCE/DOCKET NUMBER: 930049.423D1 / 1146.010
 / TELECOMMUNICATION INFORMATION:
 / TELEPHONE: (206) 622-4900
 / TELEFAX: (206) 682-6031
 / INFORMATION FOR SEQ ID NO: 80:
 / SEQUENCE CHARACTERISTICS:
 / LENGTH: 52 base pairs
 / TYPE: nucleic acid
 / STRANDEDNESS: single
 / TOPOLOGY: linear
 / SEQUENCE DESCRIPTION: SEQ ID NO: 80:
 / US-09-350-399-80

Query Match 51.9%; Score 29.6; DB 4; Length 52;
 Best Local Similarity 59.4%; Pred. No. 3.7;
 Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

Qy 4 UCCACCUCCUCGGUNNNNGGCAUGCG 35
 Db 1 TCCACCTCTCGGGTCCGACCTGGGCATCCG 32

RESULT 14
 US-09-236-140A-40
 / Sequence 40, Application US/09236140A
 / Patent No. 6376236
 / GENERAL INFORMATION:
 / APPLICANT: Dubensky Jr, Thomas W
 / Polo, John M.

Query Match 51.9%; Score 29.6; DB 4; Length 52;
 Best Local Similarity 59.4%; Pred. No. 3.7;
 Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

Qy 4 UCCACCUCCUCGGUNNNNGGCAUGCG 35
 Db 1 TCCACCTCTCGGGTCCGACCTGGGCATCCG 32

RESULT 15
 US-09-236-140A-80
 / Sequence 80, Application US/09236140A
 / Patent No. 6376236
 / GENERAL INFORMATION:
 / APPLICANT: Dubensky Jr, Thomas W
 / Polo, John M.
 / Ibanez, Carlos E.
 / Chang, Stephen M.W.
 / Jolly, Douglas J.
 / Driver, David A.
 / Belli, Barbara A.
 / TITLE OF INVENTION: RECOMBINANT ALPHAVIRUS PARTICLES
 / NUMBER OF SEQUENCES: 124
 / CORRESPONDENCE ADDRESS:
 / ADDRESSEE: OPPENHEIMER WOLFF & DONNELLY
 / STREET: 840 NEWPORT CENTER DRIVE, SUITE 700
 / CITY: NEWPORT BEACH
 / STATE: CALIFORNIA
 / COUNTRY: US
 / ZIP: 92660
 / COMPUTER READABLE FORM:
 / MEDIUM TYPE: Floppy disk
 / COMPUTER: IBM PC compatible
 / OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA: US/09/236,140A

APPLICATION NUMBER: US/09/236,140A

FILING DATE: 22-Jan-1999

CLASSIFICATION: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: Cullman, Louis C.

REGISTRATION NUMBER: 39,645

REFERENCE/DOCKET NUMBER: 20263.332 / 1146.020

TELECOMMUNICATION INFORMATION:

TELEPHONE: (949) 823.6000

TELEFAX: (949) 823.6100

INFORMATION FOR SEQ ID NO: 80:

SEQUENCE CHARACTERISTICS:

LENGTH: 52 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 80:

US-09-236-140A-80

Query Match 51.9%; Score 29.6; DB 4; Length 52;
Best Local Similarity 59.4%; Pred. No. 3.7;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

Qy 4 UCCACCUCCUCGGGUUANDNUGGCAUGCG 35

Db 1 TCCACCTCTCGCGTCCGACCTGGGCATTCG 32

Search completed: May 19, 2004, 04:52:40
Job time : 88 secs

This Page Blank (uspto)

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OM nucleic - nucleic search, using sw model
 Run on: May 19, 2004, 02:46:06 ; Search time 3211 Seconds
 (without alignments)
 530.098 Million cell updates/sec

Title: RIBOZYME1A
 Perfect score: 57
 Sequence: 1 ggguccaccucucggg...:...uucggcauggcuaaggacc 57
 Scoring table: IDENTITY_NUCDX
 Gapop 10.0 , Gapext 1.0

Searched: 27513289 seqs, 14931090276 residues
 Total number of hits satisfying chosen parameters: 55026578

Minimum DB seq length: 0
 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

Database : EST:
 1: em_estba: *
 2: em_esthum: *
 3: em_estin: *
 4: em_estmu: *
 5: em_estov: *
 6: em_estpl: *
 7: em_estro: *
 8: em_htc: *
 9: gb_est1: *
 10: gb_est2: *
 11: gb_htc: *
 12: gb_est3: *
 13: gb_est4: *
 14: gb_est5: *
 15: em_estfun: *
 16: em_estom: *
 17: em_gss_hum: *
 18: em_gss_inv: *
 19: em_gss_pln: *
 20: em_gss_vrt: *
 21: em_gss_fun: *
 22: em_gss_mam: *
 23: em_gss_mus: *
 24: em_gss_pro: *
 25: em_gss_rd: *
 26: em_gss_phg: *
 27: em_gss_vrl: *
 28: gb_gss1: *
 29: gb_gss2: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------------|--------------------|
| c 1 | 32.2 | 56.5 | 857 | 14 CF552723 | CF552723 AGENCOURT |
| c 2 | 32 | 56.1 | 1182 | 12 BI457296 | BI457296 603185617 |
| c 3 | 31.4 | 55.1 | 622 | 29 CC526419 | CC526419 CH240 401 |
| c 4 | 30.6 | 53.7 | 869 | 14 CB991305 | CB991305 AGENCOURT |

5 30.2 53.0 382 10 AW681122
 6 30.2 53.0 405 10 AW681043
 7 30.2 53.0 448 10 AW283452
 8 30.2 53.0 726 10 BF686394
 9 30.2 53.0 807 10 BE902113
 10 29.8 52.3 538 10 BE682984
 c 11 29.8 52.3 777 10 BF796052
 c 12 29.8 52.3 808 12 BM006402
 c 13 29.8 52.3 823 29 CC593873
 c 14 29.4 51.6 495 12 BJ004361
 c 15 29.4 51.6 513 10 BB386169
 c 16 29.4 51.6 1057 12 BM553956
 c 17 29.2 51.2 123 9 AU077016
 c 18 29.2 51.2 227 14 CF1223359
 c 19 29.2 51.2 257 12 BM798569
 c 20 29.2 51.2 300 9 AU099987
 c 21 29.2 51.2 349 14 CE126416
 c 22 29.2 51.2 370 9 AL701336
 c 23 29.2 51.2 380 14 CE144469
 c 24 29.2 51.2 428 14 CF144607
 c 25 29.2 51.2 453 12 BM836423
 c 26 29.2 51.2 453 14 CB126144
 c 27 29.2 51.2 457 14 CR135198
 c 28 29.2 51.2 481 14 CB113346
 c 29 29.2 51.2 487 9 AW004672
 c 30 29.2 51.2 496 14 CE125500
 c 31 29.2 51.2 496 14 CE127743
 c 32 29.2 51.2 501 10 BE386170
 c 33 29.2 51.2 503 10 BE269642
 c 34 29.2 51.2 507 14 CE140642
 c 35 29.2 51.2 508 10 BE296622
 c 36 29.2 51.2 511 12 BI053587
 c 37 29.2 51.2 513 14 CE141699
 c 38 29.2 51.2 513 28 AQ294266
 c 39 29.2 51.2 516 10 BE296669
 c 40 29.2 51.2 516 14 CE114356
 c 41 29.2 51.2 519 14 CE125200
 c 42 29.2 51.2 529 14 CE125108
 c 43 29.2 51.2 529 14 CE146530
 c 44 29.2 51.2 533 10 BF304959
 c 45 29.2 51.2 536 14 CE126208

ALIGNMENTS

RESULT 1
 CF552723/c
 LOCUS CF552723
 DEFINITION AGENCOURT_15595333 NIH MGC 183 Homo sapiens cDNA clone IMAGE:30529107 5', mRNA sequence.
 ACCESSION CF552723
 VERSION CF552723.1
 KEYWORDS EST
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 857)
 AUTHORS
 TITLE
 COMMENT Unpublished (1999)
 Contact: Daniel S. Gerhard, Ph.D.
 Office of Cancer Genomics
 National Cancer Institute / NIH
 Bldg. 31 Rm10A07 Bethesda, MD 20892
 Email: cgapbs-r@mail.nih.gov
 Tissue Procurement: Dr. Michael Brownstein
 CDNA Library Preparation: Invitrogen Corp
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
 DNA Sequencing by: Agencourt Bioscience Corporation
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at:

http://image.llnl.gov
 Plate: NDAM616 row: c column: 04
 High quality sequence stop: 680.

FEATURES
 source
 1. .857
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:30529107"
 /lab_host="DH10B-T0NA (T1 and T5 phage resistant)"
 /clone_lib="NIH_MGC_183"
 /note="Organ: Pooled muscle (cardiac and skeletal);
 Vector: pCMV-SPORT6.1; Site_1: ECORV (destroyed); Site_2:
 NOTI; Library is oligo-dT primed and directionally cloned
 (ECORV site is destroyed upon cloning). Average insert
 size 1.7. Library was constructed by Invitrogen."

ORIGIN
 Query Match 56.5%; Score 32.2; DB 14; Length 857;
 Best Local Similarity 50.9%; Pred. No. 1e+03;
 Matches 29; Conservative 13; Mismatches 15; Indels 0; Gaps 0;
 /note="Organ: Pooled muscle (cardiac and skeletal);
 Vector: pCMV-SPORT6.1; Site_1: ECORV (destroyed); Site_2:
 NOTI; Library is oligo-dT primed and directionally cloned
 (ECORV site is destroyed upon cloning). Average insert
 size 1.7. Library was constructed by Invitrogen."

RESULT 2
 BI457296/c
 LOCUS BI457296
 DEFINITION 603185617F1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:5258380 5',
 mRNA Sequence.
 EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Catarrhini; Hominidae; Homo.
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 1182)
 AUTHORS NIH-MGC
 TITLE http://mgc.nci.nih.gov/
 NATIONAL INSTITUTES OF HEALTH, MAMMALIAN GENE COLLECTION (MGC)
 JOURNAL Unpublished (1999)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgaps-r@mail.nih.gov
 Tissue Procurement: ARCC
 CDNA Library Preparation: Ling Hong/Rubin Laboratory
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LILN)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LILN at:
 http://image.llnl.gov
 Plate: LLCM1870 row: a column: 05
 High quality sequence stop: 335.

FEATURES
 source
 1. .1182
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:5258380"
 /tissue_type="epithelioid carcinoma cell line"
 /lab_host="DH10B (phage-resistant)"
 /clone_lib="NIH_MGC_42"
 /note="Organ: Pancreas; Vector: pOTB7; Site_1: XbaI;
 Site_2: EcoRI; cDNA made by oligo-dT priming.
 Directionally cloned into ECORI/XbaI sites using the
 following 5' adaptor: GGCACGAG (G). Size-selected >500bp
 for average insert size 1.8kb. Library constructed by Ling
 Hong in the laboratory of Gerald M. Rubin (University of
 California, Berkeley) using ZAP-cDNA synthesis kit
 (Stratagene) and Superscript II RT (Life Technologies).
 Note: this is a NIH_MGC Library."

ORIGIN
 Query Match 55.1%; Score 31.4; DB 29; Length 622;
 Best Local Similarity 50.9%; Pred. No. 1.5e+03;
 Matches 27; Conservative 13; Mismatches 13; Indels 0; Gaps 0;
 /note="Vector: pTARBAC1.3; Site_1: MboI; Site_2: BAC
 Hereford bull Li Domino 99375; CHORI-240 Bovine BAC
 library (Male) produced by Pieter de Jong"

ORIGIN
 Query Match 5 CCACCUCCUCGGUNNNNNGGCAUGCGGCUUCCGCAUGGC 47
 Best Local Similarity 50.9%; Pred. No. 1.5e+03;
 Matches 27; Conservative 13; Mismatches 13; Indels 0; Gaps 0;
 /note="Vector: pTARBAC1.3; Site_1: MboI; Site_2: BAC
 Hereford bull Li Domino 99375; CHORI-240 Bovine BAC
 library (Male) produced by Pieter de Jong"

ORIGIN
 5 CCACCUCCUCGGUNNNNNGGCAUGCGGCUUCCGCAUGGC 57
 /note="Vector: pTARBAC1.3; Site_1: MboI; Site_2: BAC
 Hereford bull Li Domino 99375; CHORI-240 Bovine BAC
 library (Male) produced by Pieter de Jong"

ORIGIN
 104 CCTCCCTCCTCGGGTGGATGGGGCTCAGCCCC 156

| | | | | | | | |
|------------|-----------------------------------|---|---|--|--|--|--|
| RESULT 4 | CB991305/c | LOCUS CB991305 | DEFINITION AGENCOURT 13666258 NIH MGC 148 Homo sapiens cDNA clone IMAGE:30332633 5', mRNA sequence. | AUTHORS Cordonnier-Pratt, M.-M., Gingle, A., Marsala, C., Sudman, M. and Pratt, L.H. | TITLE An EST database from Sorghum: water-stressed plants | JOURNAL Unpublished (2000) | COMMENT Contact: Cordonnier-Pratt MM |
| ACCESSION | CB991305 | VERSION CB991305.1 | KEYWORDS EST. | ORGANISM Homo sapiens (human) | COMMENT Laboratory for Genomics and Bioinformatics The University of Georgia, Department of Plant Biology Plant Sciences Building, Rm. 2502, Athens, GA 30602-7271, USA Tel: 706 542 1860 Fax: 706 583 0210 Email: mmpratt@uga.edu | COMMENT Sequences have been trimmed to exclude PolyA, vector and regions below Phred quality 16. The threshold for highest quality sequence is 20. | |
| REFERENCE | NIH-MGC http://mgc.nci.nih.gov/ | TITLE National Institutes of Health, Mammalian Gene Collection (MGC) | JOURNAL Unpublished (1999) | COMMENT Contact: Robert Strausberg, Ph.D. | FEATURES source | COMMENT Seq primer: T7 High quality sequence stop: 382 POLYA=Yes | LOCATION/QUALIFIERS 1. .382 /organism="Sorghum bicolor" /mol type="mRNA" |
| AUTHORS | NIH-MGC | TITLE NIH-MGC | JOURNAL Unpublished (1999) | COMMENT Tissue Procurement: Dr. Stefan Hansson CDNA Library Preparation: Michael J. Brownstein (NHGRI) with help and advice from Piero Carninci (RIKEN) CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Agencourt Bioscience Corporation Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov Plate: NDAM349 row: p column: 18 | FEATURES source | COMMENT High quality sequence stop: 489. | LOCATION/QUALIFIERS 1. .869 /organism="Homo sapiens" /mol type="mRNA" /db_xref="taxon:9606" /clone="IMAGE:30332633" /tissue type="pre-ecclamptic placenta" /lab host="DH10B Tona" /clone lib="NIH MGC 148" |
| DEFINITION | IMAGE:30332633 5', mRNA sequence. | COMMENT /note="Organ: placenta; Vector: pBluescriptR; Site 1: 5'-XbaI-XbaI; Site 2: BamH; Library is oligo-dT primed and directionally cloned using primer 5'-TTTTTTTTTTTTTTTTVN-3', size-selected for average insert size 2.3 kb and normalized to ROT 5. This is a primary library enriched for full-length clones and constructed using the Cap-trapper method (Carninci, in preparation). Library constructed by M. Brownstein (NIMH/NHGRI, National Institutes of Health). Note: this is a NIH MGC Library." | ORIGIN | Query Match 53.7%; Score 30.6; DB 14; Length 869; Best Local Similarity 51.0%; Pred. No. 2.8e+03; Matches 25; Conservative 13; Mismatches 11; Indels 0; Gaps 0; Gaps 0; /clone lib="Water-stressed 1 (WS1)" /note="Organism: Mix of 5-week old plants on days 7 & 8 after water was withheld; Vector: Lambda Zap; Site 1: XbaI; Site 2: EcoRI; The library was made from poly-A RNA in the cloning vector lambda ZAP II. Clones to be sequenced were prepared by mass excision." | FEATURES source | COMMENT /note="Organism: Mix of 5-week old plants on days 7 & 8 after water was withheld; Vector: Lambda Zap; Site 1: XbaI; Site 2: EcoRI; The library was made from poly-A RNA in the cloning vector lambda ZAP II. Clones to be sequenced were prepared by mass excision." | LOCATION/QUALIFIERS 1. .869 /organism="Homo sapiens" /mol type="mRNA" /db_xref="taxon:9606" /clone lib="Water-stressed 1 (WS1)" /note="Organism: Mix of 5-week old plants on days 7 & 8 after water was withheld; Vector: Lambda Zap; Site 1: XbaI; Site 2: EcoRI; The library was made from poly-A RNA in the cloning vector lambda ZAP II. Clones to be sequenced were prepared by mass excision." |
| KEYWORDS | | | | COMMENT /note="Organism: Mix of 5-week old plants on days 7 & 8 after water was withheld; Vector: Lambda Zap; Site 1: XbaI; Site 2: EcoRI; The library was made from poly-A RNA in the cloning vector lambda ZAP II. Clones to be sequenced were prepared by mass excision." | FEATURES source | COMMENT /note="Organism: Mix of 5-week old plants on days 7 & 8 after water was withheld; Vector: Lambda Zap; Site 1: XbaI; Site 2: EcoRI; The library was made from poly-A RNA in the cloning vector lambda ZAP II. Clones to be sequenced were prepared by mass excision." | LOCATION/QUALIFIERS 1. .869 /organism="Homo sapiens" /mol type="mRNA" /db_xref="taxon:9606" /clone lib="Water-stressed 1 (WS1)" /note="Organism: Mix of 5-week old plants on days 7 & 8 after water was withheld; Vector: Lambda Zap; Site 1: XbaI; Site 2: EcoRI; The library was made from poly-A RNA in the cloning vector lambda ZAP II. Clones to be sequenced were prepared by mass excision." |
| SOURCE | | | | COMMENT /note="Organism: Mix of 5-week old plants on days 7 & 8 after water was withheld; Vector: Lambda Zap; Site 1: XbaI; Site 2: EcoRI; The library was made from poly-A RNA in the cloning vector lambda ZAP II. Clones to be sequenced were prepared by mass excision." | FEATURES source | COMMENT /note="Organism: Mix of 5-week old plants on days 7 & 8 after water was withheld; Vector: Lambda Zap; Site 1: XbaI; Site 2: EcoRI; The library was made from poly-A RNA in the cloning vector lambda ZAP II. Clones to be sequenced were prepared by mass excision." | LOCATION/QUALIFIERS 1. .869 /organism="Homo sapiens" /mol type="mRNA" /db_xref="taxon:9606" /clone lib="Water-stressed 1 (WS1)" /note="Organism: Mix of 5-week old plants on days 7 & 8 after water was withheld; Vector: Lambda Zap; Site 1: XbaI; Site 2: EcoRI; The library was made from poly-A RNA in the cloning vector lambda ZAP II. Clones to be sequenced were prepared by mass excision." |
| COMMENT | | | | COMMENT /note="Organism: Mix of 5-week old plants on days 7 & 8 after water was withheld; Vector: Lambda Zap; Site 1: XbaI; Site 2: EcoRI; The library was made from poly-A RNA in the cloning vector lambda ZAP II. Clones to be sequenced were prepared by mass excision." | FEATURES source | COMMENT /note="Organism: Mix of 5-week old plants on days 7 & 8 after water was withheld; Vector: Lambda Zap; Site 1: XbaI; Site 2: EcoRI; The library was made from poly-A RNA in the cloning vector lambda ZAP II. Clones to be sequenced were prepared by mass excision." | LOCATION/QUALIFIERS 1. .869 /organism="Homo sapiens" /mol type="mRNA" /db_xref="taxon:9606" /clone lib="Water-stressed 1 (WS1)" /note="Organism: Mix of 5-week old plants on days 7 & 8 after water was withheld; Vector: Lambda Zap; Site 1: XbaI; Site 2: EcoRI; The library was made from poly-A RNA in the cloning vector lambda ZAP II. Clones to be sequenced were prepared by mass excision." |
| REFERENCE | | | | COMMENT /note="Organism: Mix of 5-week old plants on days 7 & 8 after water was withheld; Vector: Lambda Zap; Site 1: XbaI; Site 2: EcoRI; The library was made from poly-A RNA in the cloning vector lambda ZAP II. Clones to be sequenced were prepared by mass excision." | FEATURES source | COMMENT /note="Organism: Mix of 5-week old plants on days 7 & 8 after water was withheld; Vector: Lambda Zap; Site 1: XbaI; Site 2: EcoRI; The library was made from poly-A RNA in the cloning vector lambda ZAP II. Clones to be sequenced were prepared by mass excision." | LOCATION/QUALIFIERS 1. .869 /organism="Homo sapiens" /mol type="mRNA" /db_xref="taxon:9606" /clone lib="Water-stressed 1 (WS1)" /note="Organism: Mix of 5-week old plants on days 7 & 8 after water was withheld; Vector: Lambda Zap; Site 1: XbaI; Site 2: EcoRI; The library was made from poly-A RNA in the cloning vector lambda ZAP II. Clones to be sequenced were prepared by mass excision." |
| RESULT 5 | AW681122 | LOCUS AW681122 | DEFINITION WS1_8_E02_g1_A002 | AUTHORS Cordonnier-Pratt, M.-M., Gingle, A., Marsala, C., Sudman, M. and Pratt, L.H. | TITLE An EST database from Sorghum: water-stressed plants | JOURNAL Unpublished (2000) | COMMENT Contact: Cordonnier-Pratt MM |
| ACCESSION | AW681122 | VERSION AW681122.1 | KEYWORDS EST. | ORGANISM Sorghum bicolor (sorghum) | COMMENT Laboratory for Genomics and Bioinformatics The University of Georgia, Department of Plant Biology Plant Sciences Building, Rm. 2502, Athens, GA 30602-7271, USA Tel: 706 542 1860 Fax: 706 583 0210 Email: mmpratt@uga.edu | COMMENT Sequences have been trimmed to exclude PolyA, vector and regions below Phred quality 16. The threshold for highest quality sequence is 20. | LOCATION/QUALIFIERS 1. .382 /organism="Sorghum bicolor" |
| KEYWORDS | | | | COMMENT /note="Organism: Mix of 5-week old plants on days 7 & 8 after water was withheld; Vector: Lambda Zap; Site 1: XbaI; Site 2: EcoRI; The library was made from poly-A RNA in the cloning vector lambda ZAP II. Clones to be sequenced were prepared by mass excision." | FEATURES source | COMMENT /note="Organism: Mix of 5-week old plants on days 7 & 8 after water was withheld; Vector: Lambda Zap; Site 1: XbaI; Site 2: EcoRI; The library was made from poly-A RNA in the cloning vector lambda ZAP II. Clones to be sequenced were prepared by mass excision." | LOCATION/QUALIFIERS 1. .382 /organism="Sorghum bicolor" |
| SOURCE | | | | COMMENT /note="Organism: Mix of 5-week old plants on days 7 & 8 after water was withheld; Vector: Lambda Zap; Site 1: XbaI; Site 2: EcoRI; The library was made from poly-A RNA in the cloning vector lambda ZAP II. Clones to be sequenced were prepared by mass excision." | FEATURES source | COMMENT /note="Organism: Mix of 5-week old plants on days 7 & 8 after water was withheld; Vector: Lambda Zap; Site 1: XbaI; Site 2: EcoRI; The library was made from poly-A RNA in the cloning vector lambda ZAP II. Clones to be sequenced were prepared by mass excision." | LOCATION/QUALIFIERS 1. .382 /organism="Sorghum bicolor" |
| COMMENT | | | | COMMENT /note="Organism: Mix of 5-week old plants on days 7 & 8 after water was withheld; Vector: Lambda Zap; Site 1: XbaI; Site 2: EcoRI; The library was made from poly-A RNA in the cloning vector lambda ZAP II. Clones to be sequenced were prepared by mass excision." | FEATURES source | COMMENT /note="Organism: Mix of 5-week old plants on days 7 & 8 after water was withheld; Vector: Lambda Zap; Site 1: XbaI; Site 2: EcoRI; The library was made from poly-A RNA in the cloning vector lambda ZAP II. Clones to be sequenced were prepared by mass excision." | LOCATION/QUALIFIERS 1. .382 /organism="Sorghum bicolor" |
| REFERENCE | | | | COMMENT /note="Organism: Mix of 5-week old plants on days 7 & 8 after water was withheld; Vector: Lambda Zap; Site 1: XbaI; Site 2: EcoRI; The library was made from poly-A RNA in the cloning vector lambda ZAP II. Clones to be sequenced were prepared by mass excision." | FEATURES source | COMMENT /note="Organism: Mix of 5-week old plants on days 7 & 8 after water was withheld; Vector: Lambda Zap; Site 1: XbaI; Site 2: EcoRI; The library was made from poly-A RNA in the cloning vector lambda ZAP II. Clones to be sequenced were prepared by mass excision." | LOCATION/QUALIFIERS 1. .382 /organism="Sorghum bicolor" |

/mol type="mRNA"
 /db_xref="taxon:4558"
 /clone_lib="Water-stressed 1 (WS1)"
 /note="Organ: Mix of 5-week old plants on days 7 & 8 after water was withheld; Vector: Lambda Zap; Site 1: Xhol;
 Site 2: EcoRI; The library was made from poly-A RNA in the cloning vector Lambda ZAP II. Clones to be sequenced were prepared by mass excision."

ORIGIN

Query Match 53.0%; Score 30.2; DB 10; Length 405;
 Best Local Similarity 49.1%; Pred. No. 2.6e+03;
 Matches 27; Conservative 13; Mismatches 15; Indels 0; Gaps 0;

Qy 1 GGGGUCCCCUCCUGGGCAUNNNNNUGGGCAUGGGCUUUGGAC 55
 Db 10 GGTTCCAGCTCTCCACGACCTGGCTGGCTGATCGCATGGCAAAGGGAC 64

RESULT 7
 AW283452 LOCUS AW283452 Light Grown 1 (LG1) Sorghum bicolor mRNA
 DEFINITION LG1_272_E01.91_A002 Light Grown 1 (LG1) Sorghum bicolor cDNA, mRNA sequence.
 ACCESION AW283452
 VERSION AW283452..3 GI:17886563
 KEYWORDS EST.
 SOURCE Sorghum bicolor (sorghum)
 ORGANISM Sorghum bicolor; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD clade; Panicoideae; Andropogoneae; Sorghum.
 1 (bases 1 to 448)
 REFERENCE Cordonnier-Pratt, M.-M., Gingle, A., Marsala, C. and Pratt, L.H.
 AUTHORS An EST database from Sorghum: light-grown seedlings
 TITLE Unpublished (2000)
 JOURNAL COMMENT On Jan 6, 2000 this sequence replaced gi:6857936.
 Contact: Cordonnier-Pratt MM
 Laboratory for Genomics and Bioinformatics
 The University of Georgia, Department of Plant Biology
 Plant Sciences Building, Rm. 2502, Athens, GA 30602-7271, USA
 Tel: 706 542 1860
 Fax: 706 583 0210
 Email: mmpratt@uga.edu
 Sequences have been trimmed to exclude PolyA, vector and regions below Phred quality 16. The threshold for high quality sequence is 20. Three-prime sequences, which are obtained with PolyTMix or T7 sequencing primer, are presented as the reverse complement.
 Seq primer: T7
 High quality sequence start: 3
 High quality sequence stop: 448
 POLYA=Yes.

FEATURES source

1. 448
 /organism="Sorghum bicolor"
 /mol_type="mRNA"
 /db_xref="taxon:4558"

/clone_lib="Light Grown 1 (LG1)"
 /note="Organ: 10- to 14-day-old light-grown (greenhouse) seedlings; Vector: Lambda Zap; Site 1: Xhol; Site 2: EcoRI; The library was made from poly-A RNA in the cloning vector Lambda ZAP II. Clones to be sequenced were prepared by mass excision."

ORIGIN

Query Match 53.0%; Score 30.2; DB 10; Length 448;
 Best Local Similarity 49.1%; Pred. No. 2.8e+03;
 Matches 27; Conservative 13; Mismatches 15; Indels 0; Gaps 0;

Qy 1 GGGGUCCCCUCCUGGGCAUNNNNNUGGGCAUGGGCUUUGGAC 55
 Db 75 GGTTCCAGCTCTCCACGACCTGGCTGGCTGATCGCATGGCAAAGGGAC 129

RESULT 8
 BF686394 LOCUS BF686394 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4304611 5', DEFINITION mRNA sequence.
 ACCESION BF686394
 VERSION BF686394..1 GI:11971802
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 1 (bases 1 to 726)
 REFERENCE 1
 AUTHORS NIH-MGC <http://mgc.ncbi.nih.gov/>
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished (1999)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgabbs-r@nih.gov
 Tissue Procurement: ATCC
 CDNA Library Preparation: Ling Hong/Rubin Laboratory
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (L1NL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/L1NL at: <http://image.l1nl.gov>
 Plate: L1CM1170 row: d column: 20
 High Quality sequence stop: 691.
 FEATURES source
 1. 726
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:4304611"
 /tissue_type="leiomyosarcoma cell line"
 /lab_host="DH10B (phage-resistant)"
 /clone_lib="NIH_MGC_46"
 /note="Organ: uterus; Vector: pOTB7; Site 1: XhoI; Site 2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library."

ORIGIN

Query Match 53.0%; Score 30.2; DB 10; Length 726;
 Best Local Similarity 54.9%; Pred. No. 3.4e+03;
 Matches 28; Conservative 10; Mismatches 13; Indels 0; Gaps 0;

Qy 2 GGGUCCCCUCCUGGGUNNNNNUGGGCAUGGGCUUUGGCUAAGG 52
 Db 647 GCTGCCCCACCCCTGCTGTGCTCAATGGCAAGGGCTGACATGCCAGGG 697

RESULT 9
 BE902113 LOCUS BE902113 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3957479 5', DEFINITION mRNA sequence.
 ACCESION BE902113
 VERSION BE902113..1 GI:10391968
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 1 (bases 1 to 807)
 REFERENCE 1
 AUTHORS NIH-MGC <http://mgc.ncbi.nih.gov/>
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished (1999)

COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgabps-r@mail.nih.gov
 Tissue Procurement: ARCC
 cDNA Library Preparation: Ling Hong/Rubin Laboratory
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: image.llnl.gov
 Plate: LINCMB35 Row: d column: 24
 High quality sequence stop: 778.

FEATURES source 1. .807 Location/Qualifiers
 /organism="Homo sapiens"
 /mol type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:3957479"
 /tissue_type="choriocarcinoma"
 /lab_host="DH10B (phage-resistant)"
 /clone lib="NIH MGC 21"
 /note="Organ: placenta; Vector: pOTB7; Site 1: XbaI;
 Site 2: EcoRI; cDNA made by oligo-dT priming.
 Directionally cloned into ECORI/XbaI sites using the following 5' adaptor: GGCACGAG (G). Size-selected >500bp for average insert size 1.8kb.
 Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies)."

ORIGIN

Query Match Score 30.2; DB 10; Length 807;
 Best Local Similarity 54.9%; Pred. No. 3.5e+03;
 Matches 28; Conservative 10; Mismatches 13; Indels 0; Gaps 0;

Qy 2 GGUCACACUCCUCGCGUNNNNNUGGGCAUGGGCUUCAUGGCUAAGG 52
 Db 624 GCTGCCACCTGGCTGCTGTCAATGGGCAAGGGCTGCACATGGCCAGGG 674

RESULT 10 BE682984 LOCUS BE682984 DEFINITION 181389 MARC 4BOV Bos taurus CDNA 5', mRNA sequence. ACCESSION BE682984 VERSION BE682984.1 GI:10069395 KEYWORDS EST. SOURCE Bos taurus (cow) ORGANISM Bos taurus Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae; Bovinae; Bos. REFERENCE Smith, T.P.L., Grosse, W.M., Freking, B.A., Roberts, A.J., Stone, R.T., Casas, E., Wray, J.E., White, J., Cho, J., Fahrenkrug, S.C., Bennett, G.L., Heaton, M.P., Laegreid, W.W., Rohrer, G.A., Chitko-McKown, C.G., Pertea, G., Holt, I., Karamycheva, S., Liang, F., Quackenbush, J. and Keele, J.W.
 TITLE Sequence evaluation of four pooled-tissue normalized bovine cDNA libraries and construction of a gene index for cattle
 JOURNAL Genome Res. 11 (4), 626-630 (2001)
 MEDLINE 21180013 PUBMED 11282978
 COMMENT Contact: Smith TPL
 USDA, ARS, US Meat Animal Research Center
 PO Box 166, Clay Center, NE 68933-0166, USA
 Tel: 402 762 4366
 Fax: 402 762 4390
 Email: smith@email.marc.usda.gov
 Single pass sequencing. Bases called and alt trimmed with phred v0.980904.e. Vector identified by cross_match with the -minscore 18 and -minmatch 12 options.
 PCR PRIMers FORWARD: AGGAAACAGCTATGACCAT
 BACKWARD: GTTTTCCAGTCAGCAGC

FEATURES source Plate: 84 row: O column: 20
 Seq primer: ATTAGCTGACATATAAG.
 Location/Qualifiers 1. .538
 /organism="Bos taurus"
 /mol type="mRNA"
 /db_xref="taxon:9913"
 /tissue_type="pooled"
 /lab_host="DH10B"
 /clone lib="MARC 4BOV"
 /note="Vector: pCMV SPORT6; Site 1: NotI; Site 2: SalI; Library made from pooled tissue from day 20 and day 40 embryos."

ORIGIN

Query Match Score 29.8; DB 10; Length 538;
 Best Local Similarity 46.7%; Pred. No. 3.8e+03;
 Matches 21; Conservative 15; Mismatches 9; Indels 0; Gaps 0;

Qy 4 UCCACCUCCUCGCGUNNNNNUGGGCAUGGGCUUCAUGGCUAAGG 48
 Db 393 TGCACCTCCCTGAGCTTCCTGGCTTCAGCTTCCCTGGCT 437

RESULT 11 BF796052 LOCUS BF796052/c DEFINITION 602259070F1 NIH_MGC_85 Homo sapiens cDNA clone IMAGE:4342409 5', mRNA sequence.

ACCESSION BF796052 VERSION BF796052.1 GI:12101106 KEYWORDS EST. SOURCE Homo sapiens (human) ORGANISM Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. REFERENCE 1 (bases 1 to 777) NIH-MGC http://mgc.nci.nih.gov/ Mammalian Gene Collection (MGC) Unpublished (1999) Contact: Robert Strausberg, Ph.D.
 Email: cgabps-r@mail.nih.gov Tissue Procurement: Louis Staudt, M.D., Ph.D. CDNA Library Preparation: Life Technologies, Inc. CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Incyte Genomics, Inc. Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov Plate: LLAM9957 row: k column: 18 COMMENT High quality sequence stop: 716.

FEATURES source Location/Qualifiers 1. .777 /organism="Homo sapiens"
 /mol type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:4342409"
 /tissue_type="lymphoma, cell line"
 /lab_host="DH10B (phage-resistant)"
 /clone lib="NIH MGC 85"
 /note="Organ: lymph, Vector: pCMV-SPORT6; Site 1: NotI; Site 2: SalI; Cloned unidirectionally; oligo-dT primed. Average insert size 1.867 kb. Library enriched for full-length clones and constructed by Life Technologies. Note: this is a NIH_MGC Library."

ORIGIN

Query Match Score 29.8; DB 10; Length 777;
 Best Local Similarity 50.9%; Pred. No. 4.5e+03;
 Matches 27; Conservative 12; Mismatches 14; Indels 0; Gaps 0;

Qy 4 UCCACCUCCUCGCGUNNNNNUGGGCAUGGGCUUCAUGGCUAAGGACC 56

Db 268 TCCACCTCCCTGGCTGAGCACCCGGCTCATGGCAGGGGTCC 216

RESULT 12

LOCUS BM006402/c 808 bp mRNA linear EST 30-OCT-2001

DEFINITION 603615114F1 NIH_MGC_110 Homo sapiens cDNA clone IMAGE:5421075 5', mRNA Sequence.

ACCESSION BM006402

VERSION BM006402.1 GI:16520756

KEYWORDS EST.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 808)

REFERENCE NIH-MGC http://mgc.nci.nih.gov/.

AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)

TITLE Unpublished (1999)

JOURNAL COMMENT

COMMENT Contact: Robert Strausberg, Ph.D.

Email: cgabs-r@mail.nih.gov

Tissue Procurement: ATCC

CDNA Library Preparation: Ling Hong/Rubin Laboratory

CDNA Library Arrayed by: The I.M.A.G.E. Consortium (L1NL)

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/L1NL at: http://image.llnl.gov

Plate: L1CM1876 row: 1 column: 04

High quality sequence stop: 552.

FEATURES source

1. 808 Location/Qualifiers

/organism="Homo sapiens"

/mol type="mRNA"

/db_xref="taxon:9606"

/clone"IMAGE:5421075"

/tissue_type="ductal carcinoma, cell line"

/lab_host="DH10B (phage-resistant)"

/clone_lib="NIH_MGC_110"

/note="Organ: pancreas; Vector: pOTB7; Site_1: XbaI; Site_2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XbaI sites using the following 5' adaptor: GGCACGAG (G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library."

ORIGIN

Query Match 52.3%; Score 29.8; DB 29; Length 823;

Best Local Similarity 46.7%; Pred. No. 4.6e+03;

Matches 21; Conservative 15; Mismatches 9; Indels 0; Gaps 0;

Qy 4 UCCACCUCCUCGGUNNNUGGGCAUGGGCUUCGAUGGCCUAAGGGACC 56

Db 256 TCCACCTCCCTGGCTGAGCACCCGGCTCATGGCAGGGTCC 204

RESULT 14

LOCUS BJ004361/c 495 bp mRNA linear EST 05-DEC-2001

DEFINITION BJ004361 MF01SSA cDNA Oryzias latipes cDNA clone MF01SSA064D03 5', mRNA sequence.

ACCESSION BJ004361

VERSION BJ004361.1 GI:17355872

KEYWORDS Oryzias latipes (Japanese medaka)

SOURCE Oryzias latipes

ORGANISM Oryza latipes

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei; Acanthomorpha; Acanthopterygii; Percomorpha; Atherinomorpha; Beloniformes; Adrianichthidae; Oryziinae; Oryzias.

REFERENCE 1 (bases 1 to 495)

AUTHORS Kohara, Y., Shin-i, T., Kimura, T., Narita, T., Jindo, T. and Takeda, H.

TITLE Medaka EST Project in Takeda's lab

JOURNAL Unpublished (2001)

COMMENT Contact: Tadasu Shin-i Center For Genetic Resource Information

DEFINITION CH240-395G6.TARBA13P2 CHORI-240 Bos taurus genomic clone

ACCESSION CC593873

VERSION CC593873.1 GI:31954012

KEYWORDS GSS.

ORGANISM Bos taurus (cow)

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae; Bovidae; Bovinae; Bos.

REFERENCE 1 (bases 1 to 823)

AUTHORS Holt, R., Stott, J., Yang, G., Barber, S., Smailus, D., Prabhu, A.-L., Tel: 81-559-81-6856

Fax: 81-559-81-6855
 Email: tshini@genes.nig.ac.jp.
 FEATURES
 Location/Qualifiers
 source 1. 495
 /organism="Oryzias latipes"
 /mol_type="mRNA"
 /strain="Hd-rR"
 /db_xref="taxon:8090"
 /clone="MFO1SSA064D03"
 /sex="mixture of female and male"
 /tissue_type="whole embryo"
 /dev_stage="segmentation stage 20 - 25"
 /clone_lib="MFO1SSA CDNA"
 ORIGIN

| | | |
|----|----|---|
| Qy | 1 | GGGUCCACCUCCUGGGUNNNUGGGCAUGGGUUCGCAUGGCUAAG 51 |
| Db | 58 | GGGTGCTCCCTGGGACCCCTGGCTGCTGCTGAAAGAG 8 |

Search completed: May 19, 2004, 04:51:37
 Job time : 3251 secs

Query Match 51.6%; Score 29.4; DB 12; Length 495;
 Best Local Similarity 47.1%; Pred. No. 4.8e+03;
 Matches 24; Conservative 14; Mismatches 13; Indels 0; Gaps 0;
 mRNA sequence.

| | | |
|----|----|--|
| Qy | 4 | UCCACCUCCUCGGGUUNNNUGGGCAUGGGCUUCGCAUGGCUAAGGGA 54 |
| Db | 85 | TCCAGCTCTTGCAGTCGTCAGTGGTGGGTTCTGGTGGGAGTGGGA 35 |

RESULT 15

| | | |
|-------------|---|---|
| BE3886169/c | BE3886169 | 513 bp mRNA linear EST 21-JUL-2000 |
| LOCUS | 601274411F1 NIH_MGC_20 | Homo sapiens cDNA clone IMAGE:3615363 5', |
| DEFINITION | | mRNA sequence. |
| ACCESSION | BE3886169 | |
| VERSION | BE3886169.1 | GI:9331534 |
| KEYWORDS | EST. | |
| SOURCE | Homo sapiens (human) | |
| ORGANISM | Homo sapiens | |
| REFERENCE | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo. | |
| AUTHORS | NIH-MGC | http://mgc.ncbi.nih.gov/ |
| TITLE | National Institutes of Health, Mammalian Gene Collection (MGC) | |
| JOURNAL | Unpublished (1999) | |
| COMMENT | Contact: Robert Strausberg, Ph.D. Email: cgapbs-r@mail.nih.gov | |
| FEATURES | Tissue Procurement: ATCC/DCTD/DTTP CDNA Library Preparation: Ling Hong/Rubin Laboratory CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LILNL) DNA Sequencing by: Incyte Genomics, Inc. Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: image.llnl.gov Plate: LLCM279 row: f column: 04 High quality sequence start: 15 High quality sequence stop: 513. | |
| source | Location/Qualifiers 1. 513 /organism="Homo sapiens" /mol_type="mRNA" /db_xref="taxon:9606" /clone="IMAGE:3615363" /tissue_type="melanotic melanoma" /lab_host="DH10B (phage-resistant)" /clone_lib="NIH MGC 20" /note="Organ: skin; vector: pOR87; Site 1: XbaI; Site 2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XbaI sites using the following 5' adaptor: GGCACGAG (G). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-CDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies)." | |

ORIGIN

| |
|---|
| Query Match 51.6%; Score 29.4; DB 10; Length 513; |
| Best Local Similarity 49.0%; Pred. No. 4.9e+03; |
| Matches 25; Conservative 13; Mismatches 13; Indels 0; Gaps 0; |

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XX PT diagnostic and therapeutic applications.

XX Example 1; Page; 52pp; English.

XX PS Example 1; Page; 52pp; English.

XX This is the nucleotide sequence of ribozyme deltaRzP1.2. This ribozyme cleaves substrate SP1.2 (see AAZ57641). The invention relates to a nucleic acid enzyme (e.g. deltaRzP1.2) that is constructed to have a substrate binding portion with the following sequence 3'-UNNNXNN-5'. The substrate of the enzyme has the sequence 5'-H'*GNHHNN-3'. The binding portion of the enzyme (ribozyme) base pairs to 6 nucleotides 3' to the cleavage site of the substrate (cleavage site is represented by *). At least one nucleotide is present 5' to the cleavage site of the substrate sequence. The enzyme of the invention is used to cleave a substrate nucleotide sequence at a specific cleavage site by mixing the substrate with the enzyme. The enzyme is used to cleave viral RNA or RNA causing for example an inherited disease. The enzymes also have other therapeutic, biotechnological and diagnostic applications. Note: This sequence is not shown in the specification, but has been derived from the deltaRzP1.1 sequence (AAZ57636) shown in Figure 1

XX SQ Sequence 57 BP; 7 A; 21 C; 19 G; 0 T; 10 U; 0 Other;

XX Query Match 98.6%; Score 56.2; DB 3; Length 57;

XX Best Local Similarity 89.5%; Pred. No. 1.4e-07;

XX Matches 51; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

XX Qy 1 GGGUCCACCUCCUGGGGUCCGCAUGGGCUAAGGGACCC 57

XX Db 1 GGGUCCACCUCCUGGGGUCCGCAUGGGCUAAGGGACCC 57

RESULT 2

AAZ57637 ID AAZ57637 standard; RNA; 57 BP.

XX AC AAZ57637;

XX DT 05-APR-2000 (first entry)

XX DE Trans-acting antigenomic delta ribozyme, deltaRzP1.2 nucleotide sequence.

XX KW Trans-acting antigenomic delta ribozyme; viral RNA cleavage;

XX KW inherited disease; deltaRzP1.2; **SS**.

XX OS Synthetic.

XX FH Key Location/Qualifiers

FT misc_binding 1. .6

FT misc_binding /*tag= ^a /note= "Forms double stranded region with bases 52-57"

FT misc_binding 7. .19

FT misc_binding /*tag= ^b /note= "Forms double stranded region with bases 52-57"

FT misc_binding 20. .25

FT misc_binding /*tag= ^c /note= "Forms double stranded region with bases 52-57"

FT misc_binding 30. .45

FT misc_binding /*tag= ^d /note= "Forms double stranded region with bases 6-1"

FT misc_binding 52. .57

FT misc_binding /*tag= ^e /note= "Forms a double stranded region with bases 6-1"

XX PN WO9955855-A2.

XX PD 04-NOV-1999.

XX PF 29-APR-1999; 99WO-CA000391.

XX PR 29-APR-1998; 98CA-02230203.

XX PA (UYSH) UNIV SHERBROOKE.

XX PI Perreault J, Ananvoranich S, Lafontaine D;

XX DR WPI; 2000-096791/08.

XX PT New construction of nucleic acid enzyme useful for biotechnological,

XX PT Example 1; Page; 52pp; English.

XX CC This is the nucleotide sequence of ribozyme deltaRzP1.2. This ribozyme cleaves substrate SP1.2 (see AAZ57634). The invention relates to a nucleic acid enzyme (e.g. deltaRzP1.2) that is constructed to have a substrate binding portion with the following sequence 3'-UNNXNN-5'. The substrate of the enzyme has the sequence 5'-H'*GNHHNN-3'. The binding portion of the enzyme (ribozyme) base pairs to 6 nucleotides 3' to the cleavage site of the substrate (cleavage site is represented by *). At least one nucleotide is present 5' to the cleavage site of the substrate sequence. The enzyme of the invention is used to cleave a substrate nucleotide sequence at a specific cleavage site by mixing the substrate with the enzyme. The enzyme is used to cleave viral RNA or RNA causing for example an inherited disease. The enzymes also have other therapeutic, biotechnological and diagnostic applications. Note: This sequence is not shown in the specification, but has been derived from the deltaRzP1.1 sequence (AAZ57636) shown in Figure 1

XX SQ Sequence 57 BP; 7 A; 21 C; 19 G; 0 T; 10 U; 0 Other;

XX Query Match 98.6%; Score 56.2; DB 3; Length 57;

XX Best Local Similarity 89.5%; Pred. No. 1.4e-07;

XX Matches 51; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

XX Qy 1 GGGUCCACCUCCUGGGGUCCGCAUGGGCUAAGGGACCC 57

XX Db 1 GGGUCCACCUCCUGGGGUCCGCAUGGGCUAAGGGACCC 57

RESULT 3

AAZ57638 ID AAZ57638 standard; RNA; 57 BP.

XX AC AAZ57638;

XX DT 15-SEP-2003 (revised)

XX DT 05-APR-2000 (first entry)

XX DE Trans-acting antigenomic delta ribozyme nucleotide sequence.

XX KW Trans-acting antigenomic delta ribozyme; viral RNA cleavage;

XX KW inherited disease; **SS**.

XX OS Hepatitis D virus.

XX FH Key Location/Qualifiers

FT misc_binding 1. .6

FT misc_binding /*tag= ^a /note= "Forms double stranded region with bases 52-57"

FT misc_binding 7. .19

FT misc_binding /*tag= ^b /note= "Forms double stranded region with bases 52-57"

FT misc_binding 20. .25

FT misc_binding /*tag= ^c /note= "Forms double stranded region with bases 52-57"

FT misc_binding 30. .45

FT misc_binding /*tag= ^d /note= "Forms double stranded region with bases 6-1"

FT misc_binding 52. .57

FT misc_binding /*tag= ^e /note= "Forms a double stranded region with bases 6-1"

XX PN WO9955856-A2.

XX PD 04-NOV-1999.

XX PF 29-APR-1999; 99WO-CA000391.

XX PR 29-APR-1998; 98CA-02230203.

XX PA (UYSH) UNIV SHERBROOKE.

XX PR 29-APR-1999; 99WO-CA000391.

XX PR 29-APR-1998; 98CA-02230203.

XX PA (UYSH) UNIV SHERBROOKE.

XX PT New construction of nucleic acid enzyme useful for biotechnological,

XX 29-SEP-1998. PF 30-OCT-1996; 96US-00739158.

XX PD 29-SEP-1998. PR 15-SEP-1993; 93US-00122791.

XX PF 30-OCT-1996; 96US-00739158. PR 18-FEB-1994; 94US-00198450.

XX PR 15-SEP-1993; 93US-00122791. PR 14-SEP-1994; 94WO-US010469.

XX PR 15-SEP-1993; 93US-00122791. PR 30-NOV-1994; 94US-00348472.

XX PR 18-FEB-1994; 94US-00198450. PR 18-JAN-1995; 95US-00376184.

XX PR 14-SEP-1994; 94US-0010469. PR 15-MAR-1995; 95US-00404796.

XX PR 30-NOV-1994; 94US-00348472. XX (POLO/) POLO J M. PA (POLO/) POLO J M.

XX PR 18-JAN-1995; 95US-00376184. PA (DUBE/) DUBENSKY T W.

XX PR 15-MAR-1995; 95US-00404796. PA (JOLL/) JOLLY D J.

XX PA (POLO/) POLO J M. PA (DRIV/) DRIVER D A.

XX PA (DUBE/) DUBENSKY T W. PI Driver DA, Polo JM, Jolly DJ, Dubensky TW;

XX PA (JOLL/) JOLLY D J. XX DR WPI; 1998-541753/46.

XX PA (DRIV/) DRIVER D A. XX Eukaryotic layered vector initiation system - containing eukaryotic promoter and heterologous antigen coding sequence, useful for stimulating immune response.

XX PI Driver DA, Polo JM, Jolly DJ, Dubensky TW; XX Example 5; Col 108; 144pp; English.

XX PT Eukaryotic layered vector initiation system - containing eukaryotic promoter and heterologous antigen coding sequence, useful for stimulating immune response.

XX DR WPI; 1998-541753/46. XX Example 5; Col 108; 144pp; English.

XX PT Eukaryotic layered vector initiation system - containing eukaryotic promoter and heterologous antigen coding sequence, useful for stimulating immune response.

XX DR WPI; 1998-541753/46. XX PCR primers AAV60184-85 are used in the course of the invention. The specification describes an eukaryotic layered vector initiation system, based on Sindbis. The eukaryotic layered vector initiation system comprises a eukaryotic promoter 5' of viral cDNA which initiates, in a susceptible target cell, 5' to 3' synthesis of RNA from the viral cDNA. The RNA comprises a vector construct which autonomously amplifies in the cell and expresses a heterologous nucleic acid sequence which encodes an antigen or modified form that stimulates an immune response within an animal. The system is useful for stimulating an immune response to an antigen by introducing the vector into target cells, preferably by infection in vivo, especially where the immune response is a cell mediated, HLA class I-restricted or an HLA class II-restricted immune response. (Updated on 25-MAR-2003 to correct PR field.)

XX SQ Sequence 52 BP; 9 A; 21 C; 14 G; 8 T; 0 U; 0 Other; XX Query Match 51.9%; Score 29.6; DB 2; Length 52; Best Local Similarity 59.4%; Pred. No. 43; Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

XX Qy 4 UCCACCUCCUCGGUNNNNNUGGGCAUGCG 35 DB 1 TCCACCTCCTCGGCTGGACCTGGCATCG 32 XX RESULT 14 AAV70746 ID AAV70746 (revised) XX DT 20-MAR-2003 (revised) ID AAV70746 (first entry) XX DE Reverse PCR primer HDV17-68 used to amplify Hepatitis delta virus. XX KW Synthetic. OS Synthetic. OS Hepatitis D virus. XX PN US5843723-A. XX PD 01-DEC-1998. XX DE Reverse PCR primer HDV17-68. XX KW Sindbis; PCR primer; ss. XX OS Synthetic. XX PN US5814482-A. XX PD 29-SEP-1998. XX PR 15-SEP-1993; 93US-00122791. XX PR 18-FEB-1994; 94US-00198450.

PR 30-NOV-1994; 94US-00348472.
 PR 20-JAN-1995; 95US-00376184.
 PR 15-MAR-1995; 95US-00404796.
 XX (CHIR) CHIRON CORP.
 PA
 XX
 PI Chang SMW, Jolly DJ, Dubensky TW, Belli BA, Ibanez CE, Driver DA;
 PI Polo JM;
 XX DR, 1999-044581/04.
 XX
 PT Alphavirus vectors constructs containing a 5' promoter of viral cDNA by
 PT in vitro transcription - used in gene therapy.
 XX
 PS Example 3; Col 69; 140pp; English.
 XX
 XX PCR primers AAV70713-15 are overlapping primers used to amplify hepatitis
 CC delta virus (HDV) ribozyme sequences. The amplified product is used in
 CC the production of the alphavirus vector constructs of the invention.
 CC These constructs comprise a promoter 5' of viral cDNA which initiates the
 CC synthesis of RNA from the viral cDNA by in vitro transcription, followed
 CC by a 5' sequence which initiates transcription of alphavirus RNA,
 CC followed by a nucleotide sequence encoding alphavirus nonstructural
 CC proteins, a viral junction region which has been inactivated such that
 CC viral transcription of a subgenomic fragment is prevented, an internal
 CC ribosome entry site or a sequence which promotes ribosome read through
 CC between adjacent reading frames, and an alphavirus RNA Polymerase
 CC recognition sequence. The recombinant alphavirus vectors can be used for
 CC gene therapy. (Updated on 20-MAR-2003 to correct PR field.)
 XX
 SQ Sequence 52 BP; 9 A; 21 C; 14 G; 8 T; 0 U; 0 Other;
 XX
 CC PCR primers AAV70745-46 are used to amplify part of the hepatitis delta
 CC virus (HDV) genome. The amplified product is used in the production of
 CC the alphavirus vector constructs of the invention. These constructs
 CC comprise a promoter 5' of viral cDNA which initiates the synthesis of RNA
 CC from the viral cDNA by in vitro transcription, followed by a 5' sequence
 CC which initiates transcription of alphavirus RNA, followed by a nucleotide
 CC sequence encoding alphavirus nonstructural proteins, a viral junction
 CC region which has been inactivated such that viral transcription of a
 CC subgenomic fragment is prevented, an internal ribosome entry site or a
 CC sequence which promotes ribosome read through between adjacent reading
 CC frames, and an alphavirus RNA polymerase recognition sequence. The
 CC recombinant alphavirus vectors can be used for gene therapy. (Updated on
 CC 20-MAR-2003 to correct PR field.)
 XX
 SQ Sequence 52 BP; 9 A; 21 C; 14 G; 8 T; 0 U; 0 Other;
 XX
 Query Match 51.9%; Score 29.6; DB 2; Length 52;
 Best Local Similarity 59.4%; Pred. No. 43;
 Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;
 Qy 4 UCCACCUCCUCGGUNNNNNGGCAUGCCG 35
 :|||:|||:|||:|||:|||:|||:
 Db 1 TCCACCTCCTCGGACCTGGGATCCG 32
 XX
 Search completed: May 19, 2004, 03:06:11
 Job time : 407 secs

RESULT 15

AAV70714
 ID AAV70714 standard; DNA; 52 BP.
 XX
 AC AAV70714;
 XX DT 20-MAR-2003 (revised)
 DT 02-FEB-1999 (first entry)
 XX DE Nested primer HDV17-68 for hepatitis delta virus ribozyme sequence.
 XX KW Alphavirus vector construct; gene therapy; PCR primer; ss.
 XX OS Synthetic.
 OS Hepatitis D virus.
 XX PN US5843723-A.
 XX PD 01-DEC-1998.
 XX PF 30-OCT-1996; 96US-00739167.
 XX PR 15-SEP-1993; 93US-00122791.
 PR 18-FEB-1994; 94US-00198450.
 PR 30-NOV-1994; 94US-00348472.
 PR 20-JAN-1995; 95US-00376184.
 PR 15-MAR-1995; 95US-00404796.
 XX PA (CHIR) CHIRON CORP.
 XX PI Chang SMW, Jolly DJ, Dubensky TW, Belli BA, Ibanez CE, Driver DA;
 PI Polo JM;

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: May 19, 2004, 01:36:25 ; Search time 3047 Seconds
(without alignments)
810,815 Million cell updates/sec

Title: RIBOZYME1A
Perfect score: 57
Sequence: 1 gggttaccuccucgcggun.....uucggcauggcuuaagggaccc 57

Scoring table: IDENTITY_NUCDX
Gapop 10.0 , Gapext 1.0

Searched: 3470272 seqs, 21671516995 residues

Total number of hits satisfying chosen parameters: 6940544

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : GenEmbl:*

1: gb_ba:*

2: gb_htg:*

3: gb_in:*

4: gb_om:*

5: gb_ov:*

6: gb_pat:*

7: gb_ph:*

8: gb_p1:*

9: gb_pr:*

10: gb_ro:*

11: gb_sts:*

12: gb_sy:*

13: gb_un:*

14: gb_v1:*

15: em_ba:*

16: em_fun:*

17: em_hum:*

18: em_in:*

19: em_mu:*

20: em_om:*

21: em_or:*

22: em_ov:*

23: em_pat:*

24: em_ph:*

25: em_p1:*

26: em_ro:*

27: em_sts:*

28: em_un:*

29: em_v1:*

30: em_htg_hum:*

31: em_htg_inv:*

32: em_htg_other:*

33: em_htg_mus:*

34: em_htg_p1n:*

35: em_htg_rd:*

36: em_htg_mam:*

37: em_htg_vrt:*

38: em_sy:*

39: em_htgo_hum:*

40: em_htgo_mus:*

41: em_htgo_other:*

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| | | % | | | | Description | | | |
|--|--|------------|-------|--------------------|--------|-------------|-----------|----------|-------------|
| | | Result No. | Score | Query Match Length | DB ID | | | | |
| | | 1 | 56.2 | 98.6 | 57 | 6 | AX012282 | Sequence | |
| | | 2 | 56.2 | 98.6 | 57 | 6 | AX012283 | Sequence | |
| | | 3 | 56.2 | 98.6 | 57 | 6 | AX012286 | Sequence | |
| | | 4 | 56.2 | 98.6 | 57 | 6 | AX012287 | Sequence | |
| | | 5 | 56.2 | 98.6 | 57 | 6 | AX012288 | Sequence | |
| | | 6 | 56.2 | 98.6 | 57 | 6 | AX012289 | Sequence | |
| | | 7 | 56.2 | 98.6 | 57 | 6 | AX012290 | Sequence | |
| | | 8 | 55.4 | 97.2 | 57 | 6 | AX012285 | Sequence | |
| | | 9 | 46.6 | 81.8 | 57 | 6 | AX012284 | Sequence | |
| | | 10 | 36.2 | 63.5 | 37 | 6 | AX012291 | Sequence | |
| | | c | 31.4 | 55.1 | 168545 | 9 | HSA287B20 | | |
| | | c | 12 | 31 | 54.4 | 61 | 6 | I41390 | Sequence 18 |
| | | c | 13 | 29.8 | 52.3 | 159423 | 9 | AC008429 | Homo sapi |
| | | c | 14 | 29.8 | 52.3 | 171914 | 2 | AC119266 | Mus muscu |
| | | c | 15 | 29.8 | 52.3 | 184032 | 2 | AC117632 | Mus muscu |
| | | c | 16 | 29.8 | 52.3 | 213025 | 2 | AC021159 | Homo sapi |
| | | c | 17 | 29.6 | 51.9 | 52 | 6 | AR021007 | Sequence |
| | | c | 18 | 29.6 | 51.9 | 52 | 6 | AR021047 | Sequence |
| | | c | 19 | 29.6 | 51.9 | 52 | 6 | AR043422 | Sequence |
| | | c | 20 | 29.6 | 51.9 | 52 | 6 | AR043462 | Sequence |
| | | c | 21 | 29.6 | 51.9 | 52 | 6 | AR062337 | Sequence |
| | | c | 22 | 29.6 | 51.9 | 52 | 6 | AR062377 | Sequence |
| | | c | 23 | 29.6 | 51.9 | 52 | 6 | AR183796 | Sequence |
| | | c | 24 | 29.6 | 51.9 | 52 | 6 | AR183836 | Sequence |
| | | c | 25 | 29.6 | 51.9 | 52 | 6 | AR368179 | Sequence |
| | | c | 26 | 29.6 | 51.9 | 52 | 6 | AR368219 | Sequence |
| | | c | 27 | 29.6 | 51.9 | 80 | 6 | I41388 | Sequence 16 |
| | | c | 28 | 29.6 | 51.9 | 83 | 6 | AR123021 | Sequence |
| | | c | 29 | 29.6 | 51.9 | 84 | 6 | I41385 | Sequence 13 |
| | | c | 30 | 29.6 | 51.9 | 84 | 6 | I41386 | Sequence 14 |
| | | c | 31 | 29.6 | 51.9 | 86 | 6 | I41378 | Sequence 6 |
| | | c | 32 | 29.6 | 51.9 | 90 | 6 | AR243300 | Sequence |
| | | c | 33 | 29.6 | 51.9 | 90 | 6 | AR342596 | Sequence |
| | | c | 34 | 29.6 | 51.9 | 90 | 6 | AR342597 | Sequence |
| | | c | 35 | 29.6 | 51.9 | 90 | 6 | A41844 | Sequence 25 |
| | | c | 36 | 29.6 | 51.9 | 105 | 6 | A41849 | Sequence 30 |
| | | c | 37 | 29.6 | 51.9 | 567 | 6 | I05156 | Sequence 11 |
| | | c | 38 | 29.6 | 51.9 | 866 | 14 | D90192 | Hepatitis D |
| | | c | 39 | 29.6 | 51.9 | 866 | 14 | D90193 | Hepatitis D |
| | | c | 40 | 29.6 | 51.9 | 868 | 14 | D90190 | Hepatitis D |
| | | c | 41 | 29.6 | 51.9 | 868 | 14 | D90191 | Hepatitis D |

ALIGNMENTS

| RESULT | 1 | AX012282 | 57 bp | RNA | linear | PAT | 06-SRP-2000 |
|------------|---|------------|-------------------------|-----------|--------|-----|-------------|
| LOCUS | | | Sequence 44 from Patent | WO955856. | | | |
| DEFINITION | | | | | | | |
| ACCESSION | | AX012282 | | | | | |
| VERSION | | AX012282.1 | | | | | |
| KEYWORDS | | | | | | | |
| SOURCE | | | | | | | |
| ORGANISM | | | | | | | |
| REFERENCE | 1 | | | | | | |
| AUTHORS | | | | | | | |
| TITLE | | | | | | | |
| JOURNAL | | | | | | | |

Pred. No. is the number of results predicted by chance to have a

Ananvoranich, S., Lafontaine, D. and Perreault, J.P.

Nucleic acid enzyme for rna cleavage

Patent: WO 955856-A 44 04-NOV-1999;

ANANVORANICH SIRNART (CA) ; LAFONTAINE DANIEL (CA) ; PERREAU JEAN

FEATURES PIERRE (CA); UNIV SHERBROOKE (CA)
 SOURCE Location/Qualifiers
 1. 57
 /organism="synthetic construct"
 /mol_type="unassigned RNA"
 /db_xref="taxon:32630"
 /note="synthetic nucleic acid"

ORIGIN
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 Best Local Similarity 71.9%; Pred. No. 1.3e-05;
 Matches 41; Conservative 16; Mismatches 0; Indels 0; Gaps 0;
 /db_xref="taxon:32630"
 /note="synthetic nucleic acid"

Qy 1 GGGUCCACCUCCUCGGGUNNNNNUGGCAUGGGCTUCGCAUGGCUAAGGGACCC 57
 Db 1 GGGTCCACCTCCCTCGGGCTGGGATGGCTAAGGGACCC 57

RESULT 2
 AX012283 LOCUS AX012283 Sequence 45 from Patent WO9955856.
 DEFINITION AX012283
 ACCESSION AX012283
 VERSION GI:9998344
 KEYWORDS SOURCE
 ORGANISM
 /organism="synthetic construct"
 /mol_type="unassigned RNA"
 /db_xref="taxon:32630"
 /note="synthetic nucleic acid"

REFERENCE 1
 AUTHORS Ananvoranich, S., Lafontaine, D. and Perreault, J.P.
 TITLE Nucleic acid enzyme for rna cleavage
 JOURNAL Patent: WO 9955856-A 49 04-NOV-1999;
 ANANVORANICH SIRINART (CA); LAFONTAINE DANIEL (CA); PERREAU
 PIERRE (CA); UNIV SHERBROOKE (CA)
 FEATURES SOURCE
 ORIGIN
 Query Match 98.6%; Score 56.2; DB 6; Length 57;
 Best Local Similarity 71.9%; Pred. No. 1.3e-05;
 Matches 41; Conservative 16; Mismatches 0; Indels 0; Gaps 0;
 /db_xref="taxon:32630"
 /note="synthetic nucleic acid"

FEATURES SOURCE
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 Best Local Similarity 71.9%; Pred. No. 1.3e-05;
 Matches 41; Conservative 16; Mismatches 0; Indels 0; Gaps 0;
 /db_xref="taxon:32630"
 /note="synthetic nucleic acid"

RESULT 3
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 DEFINITION AX012286
 ACCESSION AX012286
 VERSION GI:9998347
 KEYWORDS SOURCE
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 /mol_type="unassigned RNA"
 /db_xref="taxon:32630"
 /note="synthetic nucleic acid"

FEATURES SOURCE
 ORIGIN
 Query Match 98.6%; Score 56.2; DB 6; Length 57;
 Best Local Similarity 71.9%; Pred. No. 1.3e-05;
 Matches 41; Conservative 16; Mismatches 0; Indels 0; Gaps 0;
 /db_xref="taxon:32630"
 /note="synthetic nucleic acid"

| | | | | | | |
|-----------------------|------------------------------------|---|-------|--------|-----------------|---|
| Db | 1 | GGTCCACCTCCCTCGGAACTGGCATGGCTTCGGTCAAGGGACCC 57 | RNA | linear | PAT 06-SEP-2000 | DEFINITION Sequence 47 from Patent WO9955856. |
| RESULT 6 | | | | | | ACCESSION AX012289 |
| LOCUS | AX012289 | Sequence 51 from Patent WO9955856. | 57 bp | RNA | linear | VERSION AX012289 |
| DEFINITION | Sequence 51 from Patent WO9955856. | | | | | KEYWORDS |
| VERSION | AX012289 | | | | | ORGANISM |
| KEYWORDS | | | | | | synthetic construct |
| SOURCE | AX012289.1 | GI:9998350 | | | | synthetic construct |
| ORGANISM | | | | | | synthetic construct |
| | | | | | | artificial sequences. |
| REFERENCE | 1 | Ananvoranich,S., Lafontaine,D. and Perreault,J.P. | | | | REFERENCE |
| AUTHORS | | Nucleic acid enzyme for rna cleavage | | | | AUTHORS |
| TITLE | | PATENT: WO 9955856-A 51 04-NOV-1999; | | | | TITLE |
| JOURNAL | | ANANVORANICH SIRINART (CA) ; LAFONTAINE DANIEL (CA) ; PERREAU | | | | JOURNAL |
| FEATURES | | TE PIERRE (CA) ; UNIV SHERBROOKE (CA) | | | | FEATURES |
| ORIGIN | | | | | | Location/Qualifiers |
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| Db | 1 | GGGTCCACCTCCCTCGGGTCCGGAGCTGGCATGGCTAAGGGACCC 57 | | | | Db |
| RESULT 7 | | | | | | RESULT 9 |
| LOCUS | AX012290 | Sequence 52 from Patent WO9955856. | 57 bp | RNA | linear | ACCESSION AX012284 |
| DEFINITION | Sequence 52 from Patent WO9955856. | | | | | DEFINITION Sequence 46 from Patent WO9955856. |
| VERSION | AX012290 | GI:9998351 | | | | VERSION AX012284 |
| KEYWORDS | | | | | | KEYWORDS |
| SOURCE | | | | | | ORGANISM |
| ORGANISM | | | | | | synthetic construct |
| | | | | | | artificial sequences. |
| REFERENCE | 1 | Ananvoranich,S., Lafontaine,D. and Perreault,J.P. | | | | REFERENCE |
| AUTHORS | | Nucleic acid enzyme for rna cleavage | | | | AUTHORS |
| TITLE | | PATENT: WO 9955856-A 46 04-NOV-1999; | | | | TITLE |
| JOURNAL | | ANANVORANICH SIRINART (CA) ; LAFONTAINE DANIEL (CA) ; PERREAU | | | | JOURNAL |
| FEATURES | | TE PIERRE (CA) ; UNIV SHERBROOKE (CA) | | | | FEATURES |
| ORIGIN | | | | | | Location/Qualifiers |
| Source | | | | | | 1. .57 |
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| | | | | | | /mol_type="unassigned RNA" |
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| | | | | | | /note="synthetic nucleic acid" |
| ORIGIN | | | | | | ORIGIN |
| Query Match | | | | | | Query Match |
| Best Local Similarity | | | | | | Best Local Similarity |
| Matches | | | | | | Matches |
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| Db | 1 | GGGTCCACCTCCCTCGGGTCCGGAGCTGGCATGGCTAAGGGACCC 57 | | | | Db |
| RESULT 8 | | | | | | RESULT 10 |
| LOCUS | AX012285 | | | | | ACCESSION AX012291 |
| | | | | | | DEFINITION Sequence 53 from Patent WO9955856. |
| | | | | | | VERSION AX012291 |
| | | | | | | KEYWORDS |
| | | | | | | ORGANISM |
| | | | | | | synthetic construct |
| | | | | | | artificial sequences. |

| REFERENCE | 1 | ANANVORANICH, S., Lafontaine, D. and Perreault, J.-P. | regions were covered by at least one plasmid subclone or more than one M13 subclone; and the assembly was confirmed by restriction digest. |
|-----------------------|---|---|--|
| AUTHORS | | | |
| TITLE | | Nucleic acid enzyme for rna cleavage | |
| JOURNAL | | PATENT: WO 995856-A 53 04-NOV-1999; | |
| FEATURES | | ANANVORANICH SIRINART (CA); LAFONTAINE DANIEL (CA); PERREAU JEAN PIERRE (CA); UNIV SHERBROOK (CA) | |
| source | 1. | .37 | |
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| | | /db_xref="taxon:32630" | |
| | | /note="synthetic nucleic acid" | |
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| Best Local Similarity | 67.6% | Pred. No. 21; | |
| Matches | 25; | Conservative 12; Mismatches 0; Indels 0; Gaps 0; | |
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| Db | 1 | GGGTCCACCTCCCTCGGGTCCGACCTGGCATGGCC 37 | |
| RESULT 11 | | | |
| HS287B20/c | 168545 bp | DNA linear PRI 11-MAR-2001 | |
| LOCUS | Human DNA sequence from clone RP11-287B20 on Chromosome 20 Contains | | |
| DEFINITION | Part of gene KIAA1272 for a protein similar to rat Tulip 2, ESTs, STSs and GSSs, complete sequence. | | |
| ACCESSION | AL121896 | | |
| VERSION | AL121896.11 | GI:12583641 | |
| KEYWORDS | HTG; KIAA1272; Tulip. | | |
| SOURCE | Homo sapiens (human) | | |
| ORGANISM | Homo sapiens | | |
| REFERENCE | 1 (bases 1 to 168545) | Eukaryota; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo. Griffiths, C. | |
| AUTHORS | | Direct Submission | |
| TITLE | | Submitted (08-MAR-2001) Sanger Centre, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries: humquery@sanger.ac.uk Clone requests: clonerequest@sanger.ac.uk | |
| JOURNAL | | On Jan 27, 2001 this sequence version replaced gi:8218066. | |
| COMMENT | | During sequence assembly data is compared from overlapping clones. Where differences are found these are annotated as variations together with a note of the overlapping clone name. Note that the variation annotation may not be found in the sequence submission corresponding to the overlapping clone, as we submit sequences with only a small overlap as described above. | |
| | | The following abbreviations are used to associate primary accession numbers given in the feature table with their source databases: Em:, EMBL:, Sw:, SWISSPROT; Tr:, TREMBL; Wp:, WORMPEP; Information on the WORMPEP database can be found at http://www.sanger.ac.uk/projects/C_elegans/wormpep This sequence was generated from part of bacterial clone contigs of human Chromosome 20, constructed by the Sanger Centre Chromosome 20 Mapping Group. Further information can be found at http://www.sanger.ac.uk/HGP/Chr20 | |
| | | RP11-287B20 is from the library RPCI-11.1 constructed by the group of Pieter de Jong. For further details see http://www.chor.org/bacpac/home.htm | |
| VECTOR | DBACE3.6 | IMPORTANT: This sequence is not the entire insert of clone RP11-287B20 It may be shorter because we sequence overlapping sections only once, except for a 100 base overlap. | |
| | | The true left end of clone RP11-287B20 is at 1 in this sequence. The true left end of clone RP5-1049G11 is at 168446 in this sequence. The true right end of clone RP11-470C13 is at 111612 in this sequence. This sequence was finished as follows unless otherwise noted: all regions were either double-stranded or sequenced with an alternate chemistry or covered by high quality data (i.e. phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all | |
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| | | /clone_id="RPCI-11.1" | |
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| | | 30. .496 | |
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| | | /note="match: STS: Em:G25753 Em:G27399" | |
| | | 2049. .2584 | |
| | | /note="L2 repeat: matches 2101. .2670 of consensus" 5422. .5607 | |
| | | /note="MERSB repeat: matches 1. .178 of consensus" 5931. .6206 | |
| | | /note="AluJb repeat: matches 1. .275 of consensus" complement(7762. .8243) | |
| | | /note="match: GSS: Em:AZ260027" | |
| | | 9279. .9897 | |
| | | /note="match: STS: Em:G57973 match: GSS: Em:AO345124" | |
| | | 9283. .9746 | |
| | | /note="match: GSS: Em:AO525450" complement(9548. .10038) | |
| | | /note="match: GSS: Em:AO772919" 10005. .10404 | |
| | | /note="match: GSS: Em:AO409384" complement(11328. .146133) | |
| | | /gene="ba287B20.1" | |
| | | complement(join(<11328. .11449,72130. .72257,94418. .94576, 102652. .102807,104712. .104835,110555. .110626, 111814. .112585,12021. .123844, 124131. .124199,125553. .125663,130988. .131096, 135046. .135104,135957. .136085,146005. .>146133)) | |
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| | | 11547. .12050 | |
| | | misc_feature | |

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Finishing Completed at Stanford Human Genome Center

www-shgc.stanford.edu

Quality: Phrap Quality >= 99.9% of Sequence;

Estimated Total Number of Errors is 0.1.

NOTE: Shatter libraries failed to resolve dinucleotide repeat region from 21938 to 21990. Forced join at 21980.

FEATURES

Location/Qualifiers

1. 159423 /organism="Homo sapiens"

/mol_type="genomic DNA"

/db_xref="taxon:9606"

/chromosome="5"

/clone="CTC-308K20"

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ORIGIN

Query Match 52.3%; Score 29.8; DB 9; Length 159423;

Best Local Similarity 49.1%; Pred. No. 6.4e+02; Matches 26; Conservative 13; Mismatches 14; Indels 0; Gaps 0;

COMMENT On Mar 17, 2003 this sequence version replaced gi:25956367.

All repeats were identified using RepeatMasker:

Smit, A.F.A. & Green, P. (1996-1997),

http://ftp.genome.washington.edu/RM/RepeatMasker.html

Center: Whitehead Institute/ MIT Center for Genome Research

Center code: WIBR

Web site: http://www-seq.wi.mit.edu

Contact: sequence_submissions@genome.wi.mit.edu

Center project name: L25499

Center clone name: 321_G_8

Sequencing vector: Plasmid; n/a; 100% of reads

Chemistry: Dye-terminator Big Dye; 100% of reads

Assembly program: Phrap; version 0.960731

Consensus quality: 169262 bases at least Q40

Consensus quality: 170279 bases at least Q30

Consensus quality: 170654 bases at least Q20

Insert size: 176000; agarose-fp

Insert size: 170914; sum-of-contigs

Quality coverage: 10.1 in Q20 bases; agarose-fp

Quality coverage: 10.4 in Q20 bases; sum-of-contigs

* NOTE: This is a 'working draft' sequence. It currently consists of 11 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.

* 1 13872: contig of 13872 bp in length

* 13873: gap of 100 bp

* 13973: contig of 674 bp in length

* 14646: gap of 100 bp

* 14746: contig of 1373 bp in length

* 16119: contig of 1373 bp in length

* 16120: gap of 100 bp

* 16220: contig of 1148 bp in length

* 17367: contig of 100 bp

* 17467: gap of 1547 bp in length

* 17468: gap of 100 bp

* 19014: contig of 1547 bp in length

* 19015: gap of 100 bp

* 19115: contig of 12335 bp in length

* 31450: gap of 100 bp

* 31550: contig of 21409 bp in length

* 52958: gap of 100 bp

* 53058: gap of 100 bp

* 53059: contig of 17015 bp in length

* 70074: gap of 100 bp

* 70173: contig of 100 bp

* 97112: contig of 26939 bp in length

* 97113: gap of 100 bp

* 97213: contig of 35323 bp in length

* 132536: gap of 100 bp

* 132635: contig of 39279 bp in length

* 171914: contig of 39279 bp in length.

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| | | | Direct Submission Submitted (10-APR-2002) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA 3 (bases 1 to 184032) |
| | | | Birren, B., Nusbaum, C., Lander, E., Abouelleil, A., Allen, N., Anderson, S., Arachchi, H.M., Barna, N., Bastien, V., Bloom, T., Boguslavkiy, L., Boukhgalter, B., Camarata, J., Chang, J., Choepel, Y., Collymore, A., Cook, A., Cooke, P., Corum, B., DeArellano, K., Diaz, J.S., Dodge, S., Dooley, K., Dorris, L., Erickson, J., Faro, S., Ferreira, P., FitzGerald, M., Gage, D., Galagyna, S., Graham, L., Grand-Pierre, N., Hafez, N., Hagopian, D., Hagos, B., Hall, J., Horton, L., Hulme, W., Iliev, I., Johnson, R., Jones, C., Kamat, A., Karatas, A., Kells, C., Landers, T., Levine, R., Lindblad-Toh, K., Liu, G., Lui, A., Mabbitt, R., MacLean, C., MacDonald, P., Major, J., Manning, J., Matthews, C., McCarthy, M., Meldrim, J., Meneus, L., Mlenga, V., Murphy, T., Naylor, J., Nguyen, C., Nicol, R., O'Connor, T., O'Donnell, P., O'Neil, D., Oliver, J., Peterson, K., Phunkhang, P., Pierre, N., Rachupka, A., Ramasamy, U., Raymond, C., Rette, R., Risse, C., Rogov, P., Roman, J., Schauer, S., Severy, P., Smith, C., Spencer, B., Strange-Thomann, N., Stojanovic, N., Stubbs, M., Talamas, J., Tesfaye, S., Theodore, J., Topham, K., Travers, M., Vassiliev, H., Venkataraman, V.S., Viel, R., Vo, A., Wilson, B., Wu, X., Wyman, D., Young, G., Zainoun, J., Zembek, L., Zimmer, A. and Zody, M. |
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| misc_feature | | 17468. .19014 /note="assembly_fragment" | |
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| misc_feature | | 97213. .132535 /note="assembly_fragment" | |
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| misc_feature | | clone_end:T7 vector_side:right" | |
| | | | TITLE JOURNAL COMMENT |
| | | | Submitted (08-FEB-2003) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA On Feb 8, 2003 this sequence version replaced gi:24962351. All repeats were identified using RepeatMasker: Smit, A.F.A. & Green, P. (1996-1997) http://ftp.genome.washington.edu/RM/RepeatMasker.html |
| | | | ----- Center: Whitehead Institute/ MIT Center for Genome Research Center code: WIBR Web site: http://www-seq.wi.mit.edu Contact: submissions@genome.wi.mit.edu |
| | | | ----- Project: sequence Project name: L23511 Center clone name: 187 D 8 ----- Summary Statistics Sequencing vector: Plasmid; n/a; 100% of reads Chemistry: Dye-terminator Big Dye; 100% of reads Assembly program: Phrap; version 0.960731 Consensus quality: 182345 bases at least Q40 Consensus quality: 182384 bases at least Q30 Consensus quality: 182696 bases at least Q20 Insert size: 182000; agarose-fp Insert size: 183032; sum-of-contigs Quality coverage: 10.8 in Q20 bases; agarose-fp Quality coverage: 10.7 in Q20 bases; sum-of-contigs |
| | | | ----- * NOTE: This is a 'working draft' sequence. It currently * consists of 11 contigs. The true order of the pieces * is not known and their order in this sequence record is * arbitrary. Gaps between the contigs are represented as * runs of N, but the exact sizes of the gaps are unknown. * This record will be updated with the finished sequence * as soon as it is available and the accession number will * be preserved. |
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| misc_feature | | | Qy 2 GGUCGACCUUCUCGGUNNNNNNNGGCAUGGGCTUCCGAUGGCUAGGGA 54 Db 106817 GCTGGAGCTCCCTGAGGTGGGGCTGGGGTCTGGGTAGGGTA 106869 |
| | | | RESULT 15 AC117632 AC117632 184032 bp DNA Linear HTG 08-FEB-2003 DEFINITION Mus musculus clone RP23-187D8, WORKING DRAFT SEQUENCE, 11 unorderd pieces |
| | | | AC117632 AC117632.3 GI:28273439 HTG; HTGS PHASE1; HTGS DRAFT. KEYWORDS Mus musculus (house mouse) SOURCE Mus musculus ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognath; Muridae; Murinae; Mus. |
| | | | 1 (bases 1 to 184032) Birren, B., Nusbaum, C. and Lander, E. Mus musculus, clone RP23-187D8 Unpublished 2 (bases 1 to 184032) |
| | | | Birren, B., Linton, L., Nusbaum, C., Lander, E., Ali, A., Allen, N., Anderson, S., Barna, N., Bastien, V., Bloom, T., Boguslavkiy, L., Boukhgalter, B., Brown, A., Camarata, J., Campopiano, A., Chang, J., Chazaro, B., Choepel, Y., Colangelo, M., Collins, S., Collymore, A., Cook, A., Cooke, P., DeArellano, K., Dewar, K., Diaz, J.S., Dodge, S., Faro, S., Ferreira, P., FitzHugh, W., Gage, D., Galagan, J., Gardyna, S., Ginde, S., Gord, S., Goyette, M., Graham, L., Grand-Pierre, N., Hagos, B., Horton, L., Hulme, W., Iliev, I., Johnson, R., Jones, C., Kamat, A., Karatas, A., Kells, C., LaRocque, K., Lamazares, R., Landers, T., Lehoczky, J., Levine, R., Lindblad-Toh, K., Liu, G., MacLean, C., Macdonald, P., Major, J., Marquis, N., Matthews, C., McCarthy, M., McEwan, P., McKernan, K., Meldrim, J., Meneus, L., |
| | | | 1 24767: contig of 24767 bp in length * 24768: gap of 100 bp * 24868: contig of 1174 bp in length * 26041: gap of 100 bp * 26141: gap of 26141 |

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* 26142 29590: contig of 3449 bp in length
* 29591 29690: gap of 100 bp
* 29691 31311: contig of 1621 bp in length
* 31312 31411: gap of 100 bp
* 31412 41665: contig of 10254 bp in length
* 41666 41765: gap of 100 bp
* 41766 54699: contig of 12934 bp in length
* 54700 54799: gap of 100 bp
* 54800 84383: contig of 29584 bp in length
* 84384 84484 112216: contig of 27733 bp in length
* 112217 112316: gap of 100 bp
* 112317 140050: contig of 27734 bp in length
* 140051 140150: gap of 100 bp
* 140151 175535: contig of 35385 bp in length
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Best Local Similarity 45.3%; Pred. No. 6.3e+02;
Matches 24; Conservative 15; Mismatches 14; Indels 0; Gaps 0;
Qy      2 GGUCCACCUCCUCGGGUUNNNNNUGGGCAUGGGCUUUGCAUGGCUAAGGGA 54
Db      149817 GGTGAGGTCTTGAAGTGGGGCTGGGGTCTCTGGGTAGGTA 149869

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Search completed: May 19, 2004, 03:57:14
 Job time : 3052 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: May 19, 2004, 02:59:41 ; Search time 390 Seconds
(without alignments)
663.253 Million cell updates/sec

Title: RIBOZYME1A
Perfect score: 57
Sequence: 1 ggguccaccucucggun.....uucgcauggcuaaggacc 57

Scoring table: IDENTITY_NUCDX
Gapop 10_0 , Gapext 1.0

Searched: 2947324 seqs, 2269024515 residues

Total number of hits satisfying chosen parameters: 5894648

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications NA: *

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3: /cgn2_6/ptodata/2/pubpna/us06_NEW_PUB.seq:/*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query | Match | Length | DB ID | Description |
|------------|-------|-------|-------|--------|---------------------|----------------------|
| 1 | 29.6 | 51.9 | 52 | 13 | US-10-150-407-40 | Sequence 40, Appl |
| 2 | 29.6 | 51.9 | 52 | 13 | US-10-150-407-80 | Sequence 80, Appl |
| 3 | 29.6 | 51.9 | 52 | 16 | US-10-346-880-40 | Sequence 40, Appl |
| 4 | 29.6 | 51.9 | 52 | 16 | US-10-346-880-80 | Sequence 80, Appl |
| 5 | 29.6 | 51.9 | 90 | 9 | US-09-733-042-12 | Sequence 12, Appl |
| c 6 | 29.6 | 51.9 | 90 | 9 | US-09-733-042-13 | Sequence 13, Appl |
| 7 | 29.6 | 51.9 | 90 | 10 | US-09-190-246-2 | Sequence 2, Appl |
| 8 | 29.6 | 51.9 | 91 | 15 | US-10-237-302-7 | Sequence 7, Appl |
| c 9 | 29.6 | 51.9 | 99 | 15 | US-10-237-302-8 | Sequence 8, Appl |
| 10 | 29.6 | 51.9 | 8100 | 10 | US-09-190-246-4 | Sequence 4, Appl |
| 11 | 29.6 | 51.9 | 15538 | 10 | US-09-190-246-1 | Sequence 1, Appl |
| c 12 | 29.2 | 51.2 | 466 | 10 | US-09-918-995-2716 | Sequence 2716, Appl |
| c 13 | 29.2 | 51.2 | 487 | 10 | US-09-918-995-10300 | Sequence 10300, Appl |
| c 14 | 29.2 | 51.2 | 601 | 14 | US-10-109-860-6 | Sequence 6, Appl |

Sequence 515, App
Sequence 515, App
Sequence 1, Appl
Sequence 3, Appl
Sequence 4237, Appl
Sequence 178, App
Sequence 1175, Appl
Sequence 1, Appl
Sequence 156, App
Sequence 209, App
Sequence 7, Appl
Sequence 39, Appl
Sequence 1, Appl
Sequence 32, Appl
Sequence 55374, Appl
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Sequence 26, Appl
Sequence 24358, Appl
Sequence 30258, Appl
Sequence 25, Appl
Sequence 101, App

RESULT 1
US-10-150-407-40
; Sequence 40, Application US/10150407
; Publication No. US20040029278A1
; GENERAL INFORMATION:
; APPLICANT: Dubensky Jr, Thomas W.
; Polo, John M.
; Jolly, Douglas J.
; Driver, David A.
; TITLE OF INVENTION: EUKARYOTIC LAYERED VECTOR INITIATION SYSTEMS
; NUMBER OF SEQUENCES: 128
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: US
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/150,407
; ATTORNEY/AGENT INFORMATION:
; FILING DATE: 17-May-2002
; NAME: McMasters, David D.
; CLASSIFICATION: <Unknown>
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US/09/350,522
; FILING DATE: 08-Jul-1999
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031

RESULT 3
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 ; Sequence 40, Application US/10346880
 ; Publication No. US20030232035A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Dubensky Jr., Thomas W
 ; APPLICANT: Polo, John M
 ; APPLICANT: Ibanez, Carlos E
 ; APPLICANT: Chang, Stephen M.W.
 ; APPLICANT: Jolly, Douglas J
 ; APPLICANT: Driver, David A
 ; APPLICANT: Belli, Barbara A
 TITLE OF INVENTION: EUKARYOTIC LAYERED VECTOR INITIATION SYSTEMS
 FILE REFERENCE: PP01146.213 (CHIR-1146/11US)
 CURRENT APPLICATION NUMBER: US/10/346,880
 CURRENT FILING DATE: 2003-01-16
 PRIOR APPLICATION NUMBER: 09/503,138
 PRIOR FILING DATE: 2000-02-11
 PRIOR APPLICATION NUMBER: 09/191,747
 PRIOR FILING DATE: 1998-11-12
 PRIOR APPLICATION NUMBER: 08/739,199
 PRIOR FILING DATE: 1996-10-30
 PRIOR APPLICATION NUMBER: 08/404,796
 PRIOR FILING DATE: 1995-03-15
 PRIOR APPLICATION NUMBER: 08/376,184
 PRIOR FILING DATE: 1995-01-18
 PRIOR APPLICATION NUMBER: 08/348,472
 PRIOR FILING DATE: 1994-11-30
 PRIOR APPLICATION NUMBER: 08/198,450
 PRIOR FILING DATE: 1994-02-18
 PRIOR APPLICATION NUMBER: 08/122,791
 PRIOR FILING DATE: 1993-09-15
 NUMBER OF SEQ ID NOS: 128
 SOFTWARE: PastSEQ for Windows Version 3.0
 SEQ ID NO 40
 LENGTH: 52
 TYPE: DNA
 ORGANISM: Unknown
 FEATURE:
 OTHER INFORMATION: Artificial sequence: nested primer HDV17-68
 US-10-346-880-40

Query Match 51.9%; Score 29.6; DB 13; Length 52;
 Best Local Similarity 59.4%; Pred. No. 21;
 Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

Qy 4 UCCACCUCCUGGGUNNNUGGCAUGCG 35
 Db 1 TCCACCTCCTGGCTCGACCTGGGATCCG 32

RESULT 2
 US-10-150-407-80
 ; Sequence 80, Application US/10150407
 ; Publication No. US20040029278A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Dubensky Jr., Thomas W
 ; APPLICANT: Polo, John M.
 ; Jolly, Douglas J.
 ; Driver, David A.
 TITLE OF INVENTION: EUKARYOTIC LAYERED VECTOR INITIATION SYSTEMS
 NUMBER OF SEQUENCES: 128
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: SEED and BERRY LLP
 STREET: 6300 Columbia Center, 701 Fifth Avenue
 CITY: Seattle
 STATE: Washington
 COUNTRY: US
 ZIP: 98104-7092
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/10/150,407
 FILING DATE: 17-May-2002
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/09/350,522
 FILING DATE: 08-Jul-1999
 ATTORNEY/AGENT INFORMATION:
 NAME: McMasters, David D.
 REGISTRATION NUMBER: 33,963
 REFERENCE/DOCKET NUMBER: 930049.4233D1 / 1146.010
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (206) 622-4900
 TELEFAX: (206) 682-6031
 INFORMATION FOR SEQ ID NO: 80:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 52 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 SEQUENCE DESCRIPTION: SEQ ID NO: 80:
 US-10-150-407-80

Query Match 51.9%; Score 29.6; DB 13; Length 52;
 Best Local Similarity 59.4%; Pred. No. 21;
 Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

Qy 4 UCCACCUCCUGGGUNNNUGGCAUGCG 35
 Db 1 TCCACCTCCTGGCTCGACCTGGGATCCG 32

RESULT 4
 US-10-346-880-80
 ; Sequence 80, Application US/10346880
 ; Publication No. US20030232035A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Dubensky Jr., Thomas W
 ; APPLICANT: Polo, John M
 ; APPLICANT: Ibanez, Carlos E
 ; APPLICANT: Chang, Stephen M.W.
 ; APPLICANT: Jolly, Douglas J
 ; APPLICANT: Driver, David A
 ; APPLICANT: Belli, Barbara A
 TITLE OF INVENTION: EUKARYOTIC LAYERED VECTOR INITIATION SYSTEMS
 FILE REFERENCE: PP01146.213 (CHIR-1146/11US)
 CURRENT APPLICATION NUMBER: US/10/346,880
 CURRENT FILING DATE: 2003-01-16
 PRIOR APPLICATION NUMBER: 09/503,138
 PRIOR FILING DATE: 2000-02-11
 PRIOR APPLICATION NUMBER: 09/191,747
 PRIOR FILING DATE: 1998-11-12
 PRIOR APPLICATION NUMBER: 08/739,199
 PRIOR FILING DATE: 1996-10-30

```

; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 13
; LENGTH: 90
; TYPE: DNA
; ORGANISM: HDV-REV
; US-09-733-042-13

Query Match 51.9%; Score 29.6; DB 9; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 14
; LENGTH: 90
; TYPE: DNA
; ORGANISM: HDV-REV
; US-09-733-042-13

Query Match 51.9%; Score 29.6; DB 9; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 15
; LENGTH: 90
; TYPE: DNA
; ORGANISM: HDV-REV
; US-09-733-042-13

Query Match 51.9%; Score 29.6; DB 9; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 16
; LENGTH: 90
; TYPE: DNA
; ORGANISM: Unknown

RESULT 7
US-09-190-246-2
; Sequence 2, Application US/09190246
; Publication No. US20030180257A1
; GENERAL INFORMATION:
; APPLICANT: Parrington, Mark
; APPLICANT: Li, Xiaomao
; APPLICANT: Klein, Michael
; TITLE OF INVENTION: ALPHAVIRUS VECTORS FOR PARAMYXOVIRUS VACCINES
; FILE REFERENCE: Parrington et al.
; CURRENT APPLICATION NUMBER: US/09/190,246
; CURRENT FILING DATE: 1998-11-13
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; TYPE: DNA
; ORGANISM: Semliki Forest virus
US-09-190-246-2

Query Match 51.9%; Score 29.6; DB 10; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 17
; LENGTH: 90
; TYPE: DNA
; ORGANISM: Semliki Forest virus

RESULT 8
US-10-237-302-7
; Sequence 7, Application US/10237302
; Publication No. US20030119182A1
; GENERAL INFORMATION:
; APPLICANT: Alphavax, Inc.
; APPLICANT: Jonathan F. Smith
; APPLICANT: Kurt I. Kamrud
; APPLICANT: Jonathan O. Rayner
; APPLICANT: Sergey A. Dryga
; APPLICANT: Ian J. Caley
; TITLE OF INVENTION: ALPHAVIRUS REPLICON VECTOR SYSTEMS
; FILE REFERENCE: 01113.0002U2
; CURRENT APPLICATION NUMBER: US/10/237,302
; CURRENT FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: 01113.0002U2
; PRIOR FILING DATE: 2001-09-06
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 91
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence; NOTE =
; OTHER INFORMATION: Synthetic Construct
; US-10-237-302-7

; SEQ ID NO 18
; LENGTH: 90
; TYPE: DNA
; ORGANISM: Unknown

RESULT 5
US-09-733-042-12
Sequence 12, Application US/09733042
Patent No. US20020168709A1
GENERAL INFORMATION:
APPLICANT: Hennecke, Frank
APPLICANT: Renner, Wolfgang A. Based Activation of Endogenous Genes
TITLE OF INVENTION: Replicon Based Activation of Endogenous Genes
FILE REFERENCE: 1700.0100001
CURRENT APPLICATION NUMBER: US/09/733,042
CURRENT FILING DATE: 2000-12-11
PRIOR APPLICATION NUMBER: US 60/169,988
PRIOR FILING DATE: 1999-12-10
NUMBER OF SEQ ID NOS: 49
SOFTWARE: PatentIn version 3.0
SEQ ID NO 12
LENGTH: 90
TYPE: DNA
ORGANISM: HDV-FOR
US-09-733-042-12

Query Match 51.9%; Score 29.6; DB 9; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 19
; LENGTH: 90
; TYPE: DNA
; ORGANISM: HDV-FOR
; US-09-733-042-12

Query Match 51.9%; Score 29.6; DB 9; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 20
; LENGTH: 90
; TYPE: DNA
; ORGANISM: HDV-FOR
; US-09-733-042-12

Query Match 51.9%; Score 29.6; DB 9; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 21
; LENGTH: 90
; TYPE: DNA
; ORGANISM: HDV-FOR
; US-09-733-042-12

Query Match 51.9%; Score 29.6; DB 9; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 22
; LENGTH: 90
; TYPE: DNA
; ORGANISM: HDV-FOR
; US-09-733-042-12

Query Match 51.9%; Score 29.6; DB 9; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 23
; LENGTH: 90
; TYPE: DNA
; ORGANISM: HDV-FOR
; US-09-733-042-12

Query Match 51.9%; Score 29.6; DB 9; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 24
; LENGTH: 90
; TYPE: DNA
; ORGANISM: HDV-FOR
; US-09-733-042-12

Query Match 51.9%; Score 29.6; DB 9; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 25
; LENGTH: 90
; TYPE: DNA
; ORGANISM: HDV-FOR
; US-09-733-042-12

Query Match 51.9%; Score 29.6; DB 9; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 26
; LENGTH: 90
; TYPE: DNA
; ORGANISM: HDV-FOR
; US-09-733-042-12

Query Match 51.9%; Score 29.6; DB 9; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 27
; LENGTH: 90
; TYPE: DNA
; ORGANISM: HDV-FOR
; US-09-733-042-12

Query Match 51.9%; Score 29.6; DB 9; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 28
; LENGTH: 90
; TYPE: DNA
; ORGANISM: HDV-FOR
; US-09-733-042-12

Query Match 51.9%; Score 29.6; DB 9; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 29
; LENGTH: 90
; TYPE: DNA
; ORGANISM: HDV-FOR
; US-09-733-042-12

Query Match 51.9%; Score 29.6; DB 9; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 30
; LENGTH: 90
; TYPE: DNA
; ORGANISM: HDV-FOR
; US-09-733-042-12

Query Match 51.9%; Score 29.6; DB 9; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 31
; LENGTH: 90
; TYPE: DNA
; ORGANISM: HDV-FOR
; US-09-733-042-12

Query Match 51.9%; Score 29.6; DB 9; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 32
; LENGTH: 90
; TYPE: DNA
; ORGANISM: HDV-FOR
; US-09-733-042-12

Query Match 51.9%; Score 29.6; DB 9; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 33
; LENGTH: 90
; TYPE: DNA
; ORGANISM: HDV-FOR
; US-09-733-042-12

Query Match 51.9%; Score 29.6; DB 9; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 34
; LENGTH: 90
; TYPE: DNA
; ORGANISM: HDV-FOR
; US-09-733-042-12

Query Match 51.9%; Score 29.6; DB 9; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 35
; LENGTH: 90
; TYPE: DNA
; ORGANISM: HDV-FOR
; US-09-733-042-12

Query Match 51.9%; Score 29.6; DB 9; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 36
; LENGTH: 90
; TYPE: DNA
; ORGANISM: HDV-FOR
; US-09-733-042-12

Query Match 51.9%; Score 29.6; DB 9; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 37
; LENGTH: 90
; TYPE: DNA
; ORGANISM: HDV-FOR
; US-09-733-042-12

Query Match 51.9%; Score 29.6; DB 9; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 38
; LENGTH: 90
; TYPE: DNA
; ORGANISM: HDV-FOR
; US-09-733-042-12

Query Match 51.9%; Score 29.6; DB 9; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 39
; LENGTH: 90
; TYPE: DNA
; ORGANISM: HDV-FOR
; US-09-733-042-12

Query Match 51.9%; Score 29.6; DB 9; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 40
; LENGTH: 90
; TYPE: DNA
; ORGANISM: HDV-FOR
; US-09-733-042-12

Query Match 51.9%; Score 29.6; DB 9; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 41
; LENGTH: 90
; TYPE: DNA
; ORGANISM: HDV-FOR
; US-09-733-042-12

Query Match 51.9%; Score 29.6; DB 9; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 42
; LENGTH: 90
; TYPE: DNA
; ORGANISM: HDV-FOR
; US-09-733-042-12

Query Match 51.9%; Score 29.6; DB 9; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 43
; LENGTH: 90
; TYPE: DNA
; ORGANISM: HDV-FOR
; US-09-733-042-12

Query Match 51.9%; Score 29.6; DB 9; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 44
; LENGTH: 90
; TYPE: DNA
; ORGANISM: HDV-FOR
; US-09-733-042-12

Query Match 51.9%; Score 29.6; DB 9; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 45
; LENGTH: 90
; TYPE: DNA
; ORGANISM: HDV-FOR
; US-09-733-042-12

Query Match 51.9%; Score 29.6; DB 9; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 46
; LENGTH: 90
; TYPE: DNA
; ORGANISM: HDV-FOR
; US-09-733-042-12

Query Match 51.9%; Score 29.6; DB 9; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 47
; LENGTH: 90
; TYPE: DNA
; ORGANISM: HDV-FOR
; US-09-733-042-12

Query Match 51.9%; Score 29.6; DB 9; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 48
; LENGTH: 90
; TYPE: DNA
; ORGANISM: HDV-FOR
; US-09-733-042-12

Query Match 51.9%; Score 29.6; DB 9; Length 90;
Best Local Similarity 59.4%; Pred. No. 23;
Matches 19; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

; SEQ ID NO 49
; LENGTH: 90
; TYPE: DNA
; ORGANISM: HDV-FOR
; US-09-733-042-12

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FILE REFERENCE: 20411-756
 CURRENT APPLICATION NUMBER: US/09/918,995
 CURRENT FILING DATE: 2001-07-30
 PRIOR APPLICATION NUMBER: US/09/235,076
 PRIOR FILING DATE: 1999-01-20
 NUMBER OF SEQ ID NOS: 38054
 SOFTWARE: FastSEQ for Windows Version 3.0
 SEQ ID NO: 10300
 LENGTH: 487
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: (1)..(487)
 OTHER INFORMATION: n = A,T,C or G
 US-09-918-995-10300

Query Match 51.2%; Score 29.2; DB 13; Length 1415;
 Best Local Similarity 50.0%; Pred. No. 42;
 Matches 23; Conservative 13; Mismatches 10; Indels 0; Gaps 0;

Qy 1 GGGGUCCACCUCCUGGGUNNNNNUGGGCAUGGGGGUUCGCAUGG 46
 Db 93 GGGTGGCTCCCTCCTCGGGACCCCTGGCTGGTCAATGGCGCTGGCGTGG 48

Search completed: May 19, 2004, 04:59:42
 Job time : 421 secs

RESULT 14
 US-10-109-860-6/c
 Sequence 6, Application US/10109860
 Publication No. US20020142421A1
 GENERAL INFORMATION:
 APPLICANT: SHAO, Wei et al.
 TITLE OF INVENTION: ISOLATED HUMAN AMINOACYLASE, NUCLEIC
 ACID MOLECULES ENCODING HUMAN AMINOACYLASE, AND USES THEREOF
 FILE REFERENCE: CL001179DIV
 CURRENT APPLICATION NUMBER: US/10/109,860
 CURRENT FILING DATE: 2002-04-01
 PRIOR APPLICATION NUMBER: 09/814,951
 PRIOR FILING DATE: 2001-03-23
 NUMBER OF SEQ ID NOS: 14
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 6
 LENGTH: 601
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-10-109-860-6

Query Match 51.2%; Score 29.2; DB 14; Length 601;
 Best Local Similarity 50.0%; Pred. No. 38;
 Matches 23; Conservative 13; Mismatches 10; Indels 0; Gaps 0;

Qy 1 GGGGUCCACCUCCUGGGUNNNNNUGGGCAUGGGGGUUCGCAUGG 46
 Db 77 GGGTGGCTCCCTCCTCGGGACCCCTGGTGGTCAATGGCGCTGGCGTGG 32

RESULT 15
 US-10-342-887-515/c
 Sequence 515, Application US/10342887
 Publication No. US20040058340A1
 GENERAL INFORMATION:
 APPLICANT: Dai, Hongyue
 APPLICANT: He, Yudong
 APPLICANT: Linsley, Peter S.
 APPLICANT: Mao, Mao
 APPLICANT: Roberts, Christopher J.
 APPLICANT: Van 't Veer, Laura Joanna
 APPLICANT: Van de Vijver, Marc J.
 APPLICANT: Bernards, Rene
 TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients
 FILE REFERENCE: 9301-188-999
 CURRENT APPLICATION NUMBER: US/10/342,887
 CURRENT FILING DATE: 2003-01-15

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